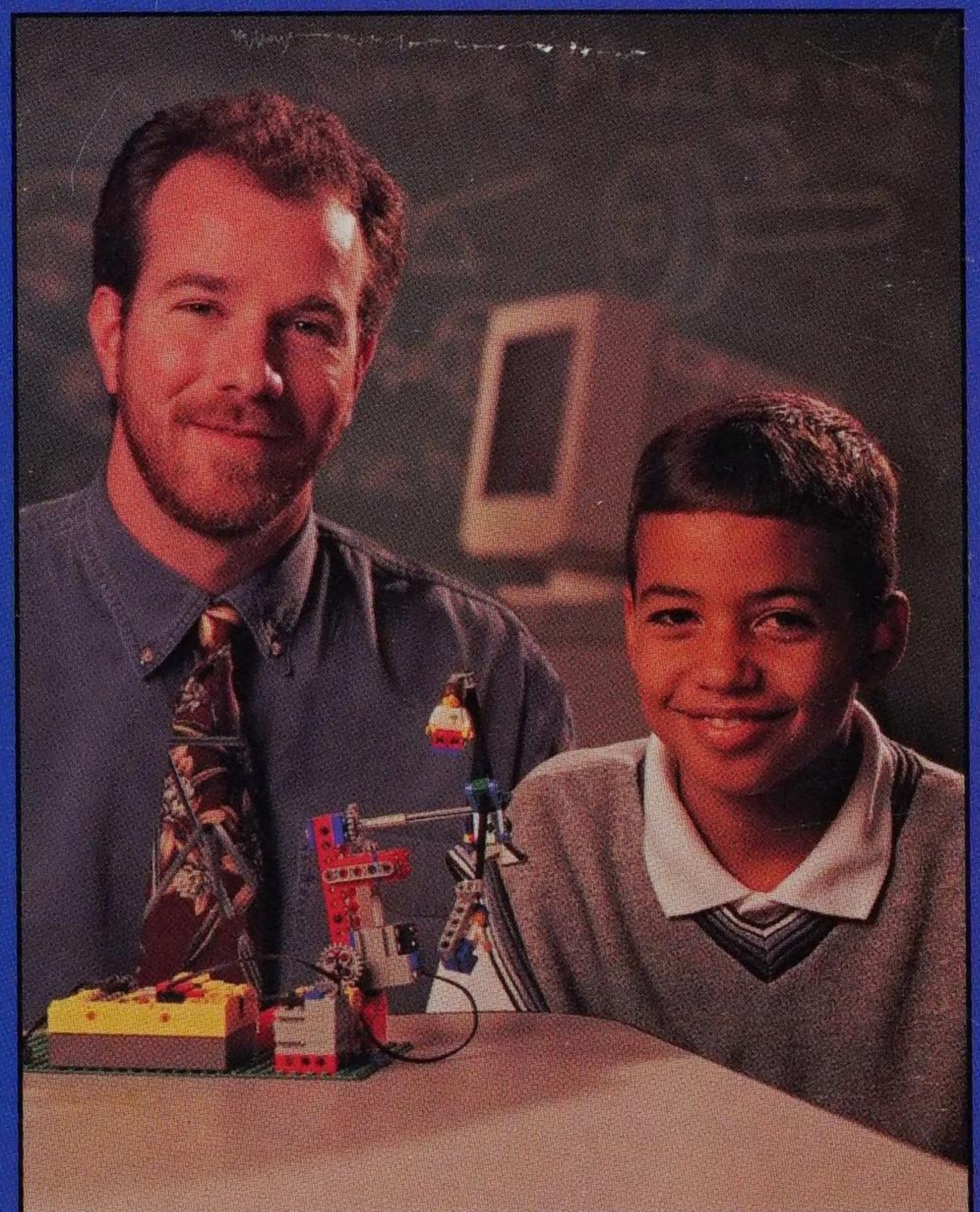




1999 Edition





Dear Teacher Friend,

Nineteen ninety-eight (1998) was the beginning of a great partnership between two leaders in education. LEGO Dacta and Pitsco began not only a partnership, but also a quest to make learning more meaningful for ALL students.

We began the quest by asking input from practicing teachers and by listening to the teachers on our staff and to our customers. We learned new things and received frequent reinforcement of things we had experienced or previously learned about motivating students.

The result?

We developed three Solutions from which practicing teachers may choose to meaningfully engage learners! Review the solutions below and then choose the one most appropriate for your situation.

Respectfully,

Harvey Dean
President

We offer three solutions for your classroom!



SOLUTION 1.* THE PITSCO LEGO DACTA CATALOG

Included herein are seven topical or thematic sections, including:

- Matter & Light
- Shape & Structure
- Design & Invent
- Energy and Power
- Transportation & Communication
- Space & Flight
- Machines & Robots

Within each of these sections can be found products appropriate for students of all age and maturation levels. The products are durable and made for success. From this catalog, each teacher may select the hands-on, minds-on activities, equipment and kits to integrate into existing subjects/classes, particularly those with physical science, math and technology emphasis.

Each two-page spread is graphically pleasing to view, with each section containing a unique color bar for ease in locating themed products. The blue sidebars include statements of encouragement for every teacher.

And there's more, much more. But suffice it to be said that this catalog will become your best friend as you integrate your course work to provide meaningfully engaged learners!

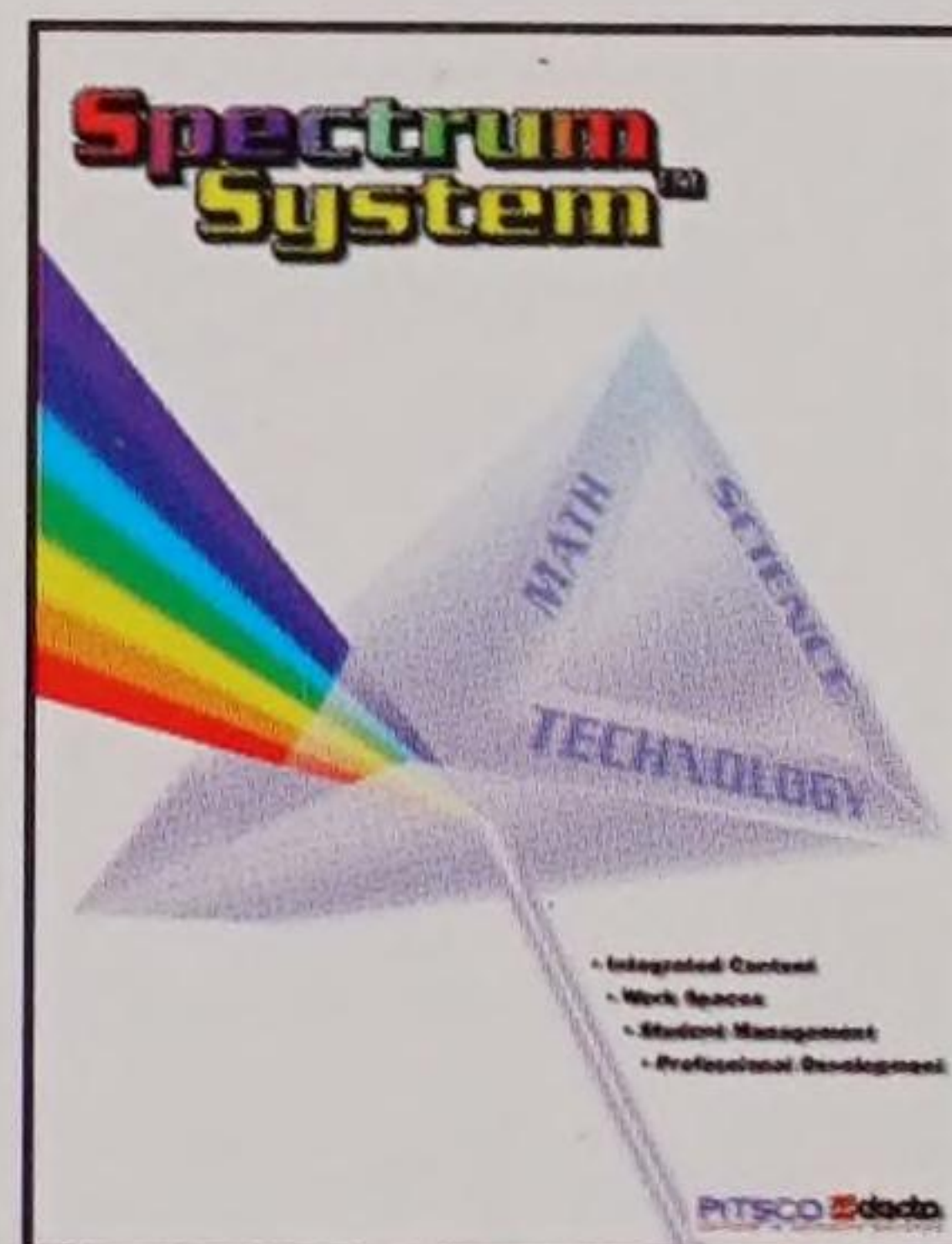


SOLUTION 2. THE SPECTRUM LINK GUIDES.

While teachers around the world are aware of the benefits of hands-on, minds-on education, many approach science and technology education at the elementary level with fear and trepidation. These guides show teachers how to add activities to existing text material.

The guides revolve around exciting hands-on activities that reinforce science and technology concepts. With each activity, a strong real-world connection is made to deepen students' understanding. They become meaningfully engaged learners!

The guides are written specifically for three grade levels—K-2, grades 3-5, and grades 6-8. The spiraling curriculum concept of the guides reinforces and builds one activity upon another, year after year. Problem-solving is the fundamental ingredient in each activity in the guides. Many of the products in this catalog are referenced in the guides. A detailed listing of the Spectrum Links Teacher Guides is provided on pages 2 & 3.



SOLUTION 3. THE SPECTRUM SYSTEM

The Spectrum System is a Math, Science and Technology program. It is a hands-on, minds-on cooperative learning system for all students in grades kindergarten through six. The system provides the teacher with student materials, equipment, supplies, classroom resources, home links, career links and management tools to implement hands-on activities, organize

thematic units, and integrate math and communication skills with science and technology. A Learningsphere is created when students, teacher, hands-on/minds-on activities and work space become one. Learning occurs as teams of four students immerse themselves in cooperative learning through the System's patented methods. Talk about meaningfully engaged learners!

To learn more about this new teaching method, refer to information on pages 110 & 111 or request a detailed brochure.

**Truly a compendium of hundreds of discreet solutions.*

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New!

You'll see this icon on innovative new products available from LEGO DACTA and Pitsco for the first time. We're constantly developing and searching for great classroom tools that keep students and teachers on the cutting edge.

EXCLUSIVE

This icon appears with great stuff that you can't buy anywhere else, meaning we are the sole source. These products were designed to meet your specific classroom needs, built to our exacting specifications, and backed by our excellent customer service.

CD ROM

There's an abundance of so-called educational CD-ROM's out there, but we've selected only the best for this catalog. Covering a broad range of subjects, they will empower your students to explore, interact and enrich their hungry minds.

**Easy to Use
Information
Buttons**

Best Buy!

When you see the 'Best Buy' icon, you will know we have made a special package for you. Many times it will be a complete system - the easiest way to get started with an activity. All the time, it will mean you are saving money over buying individual components.

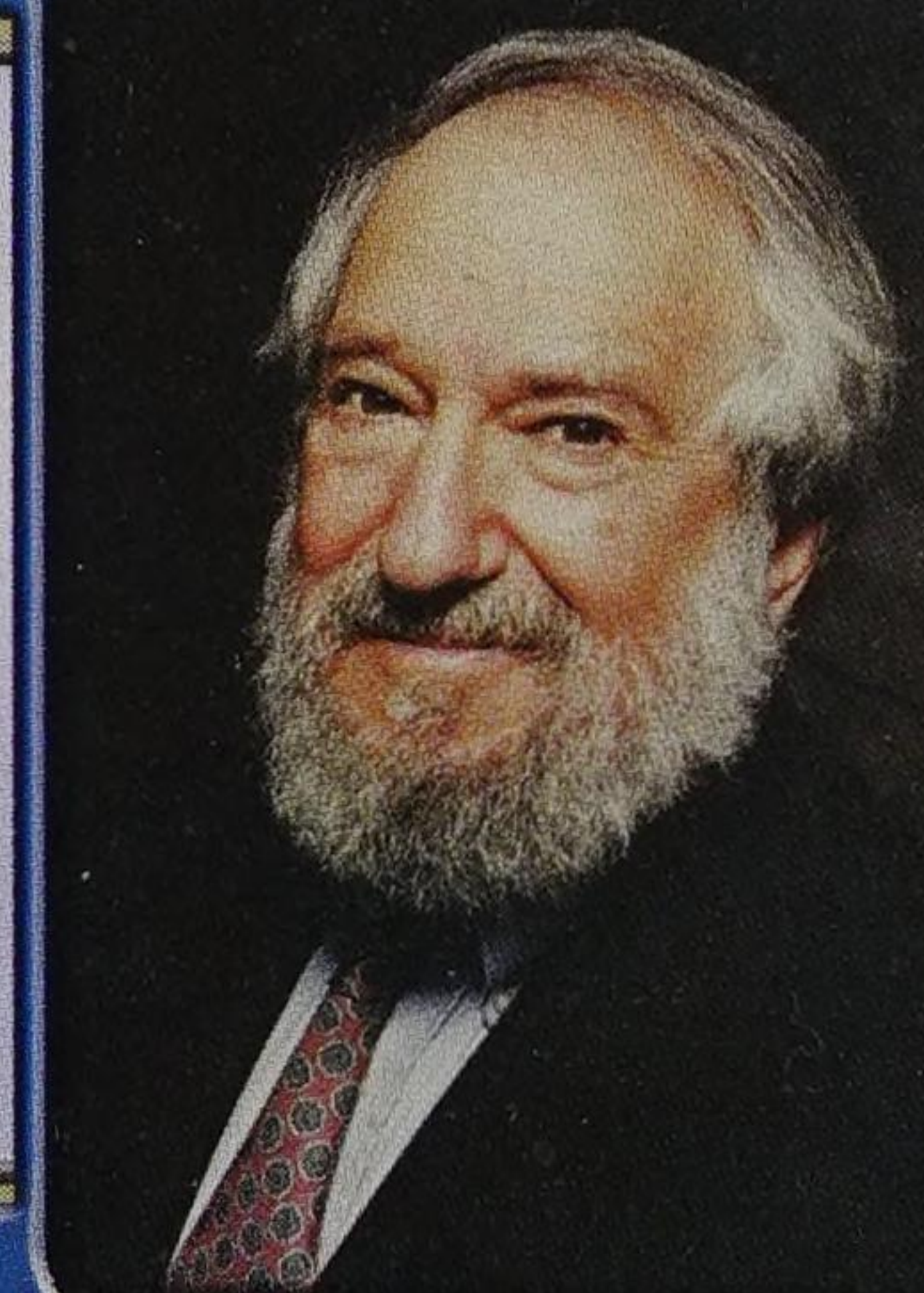


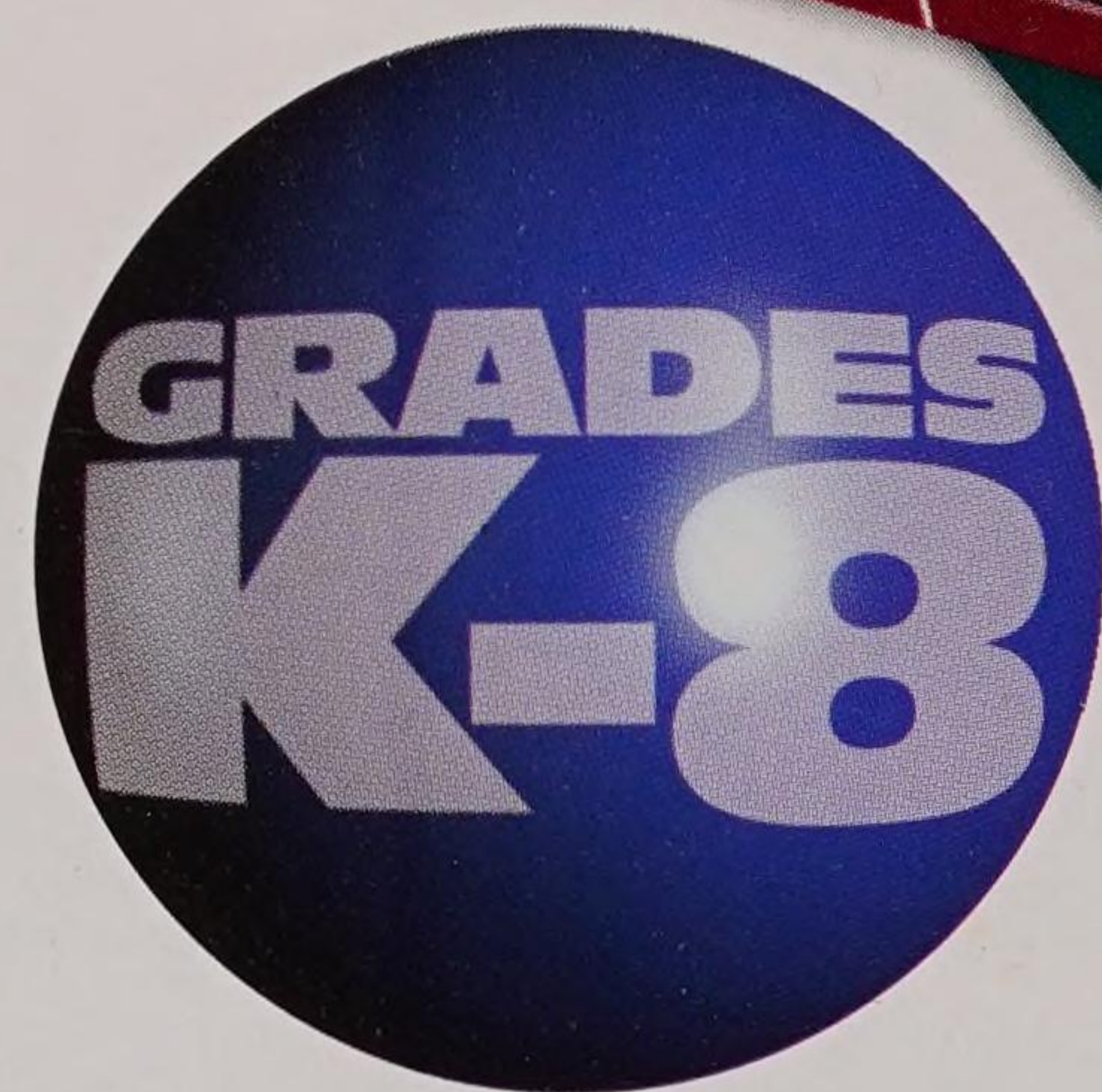
Professional staff development training for LEGO DACTA products is available in most states.
Call for details.
1-800-362-4308

Dr. Seymour Papert

Dr. Seymour Papert is the father of the constructionist theory of learning. Beginning with a close collaboration with Jean Piaget in Geneva and continuing for over thirty years at MIT he has devoted most of his life to inventing new ways for children to learn by actively creating meaning for themselves in carrying out serious projects. These include the LOGO computer language and the idea of connecting LEGO bricks to computers. Books he has authored include: *Mindstorms: Children, Computers, and Powerful Ideas*, *The Children's Machine: Rethinking School in the Age of the Computer*, and *The Connected Family: Bridging the Digital Generation Gap*.

Papert is known as a mathematician, as a computer scientist, and as co-founder, with Marvin Minsky, of the MIT Artificial Intelligence Laboratory. He presently holds the LEGO Chair of Learning Research at the MIT Media Lab.





PITSCO
INNOVATIVE EDUCATION.

SPECTRUM LINKS™

This excellent curriculum engages children, from kindergarten to eighth grade, in activities which relate to their home and school. Students work in small groups and are introduced to concepts which they will build upon. In this spiraled curriculum, these experiences serve as foundations for more complex experiences as their grade level increases.

The hands-on activities are designed to initiate questions and awaken their interest. Each activity builds upon the students previous experiences. There are multiple activities in each topic area for each grade level.

Through these activities, students discover concepts related to materials, structures, mechanisms, energy and control. Students are introduced to a comprehensive range of skills which are developed at an age appropriate level. Students at each level are engaged in challenging activities designed to develop and further the higher order thinking skills. Basic concepts are learned through these activities delivered within the contexts of seven subject areas.

Within each of these contexts, activities are enhanced through the use of LEGO DACTA and Pitsco products in addition to inexpensive, easy-to-find materials. Check out our tools and supplies section toward the end of this catalog for many of these products. Students who participate in this integrated curriculum will be actively engaged in a constructionist approach to learning.

SPECTRUM LINKS™ curriculum is designed to be incorporated into existing elementary instruction and is highly adaptable to suit *your* classroom.

N990047 K-2 Curriculum Guide Series—\$90

N990048 3-5 Curriculum Guide Series—\$90

N990049 6-8 Curriculum Guide Series—\$90

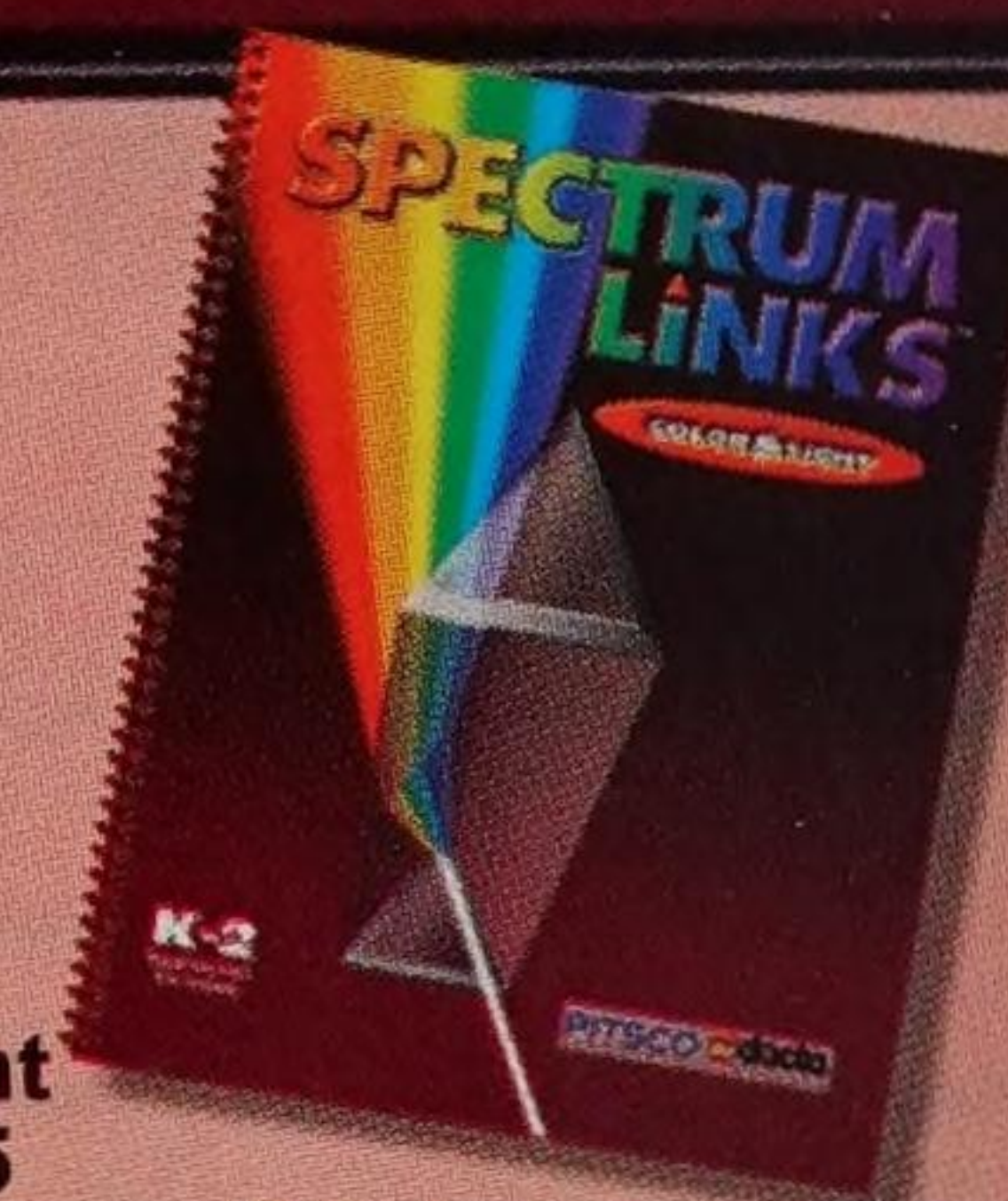
N990050 K-8 Complete Curriculum Series—\$250

GRADES K-2

COLOR & LIGHT

- Color Collections
- Color Build
- Discovering Shades
- Eyes
- Rainbow Shades
- Tasty, Tasty

N990024 K-2 Color & Light Curriculum Guide—\$13.95



SHAPE & STRUCTURE

- Building a Tower
- Rapunzel's Fire Escape
- Tall Tower
- Sorting Material
- Dominoes
- Building a Wall
- The Third Little Pig
- Bricks
- My House is Made of...
- Mobile Home

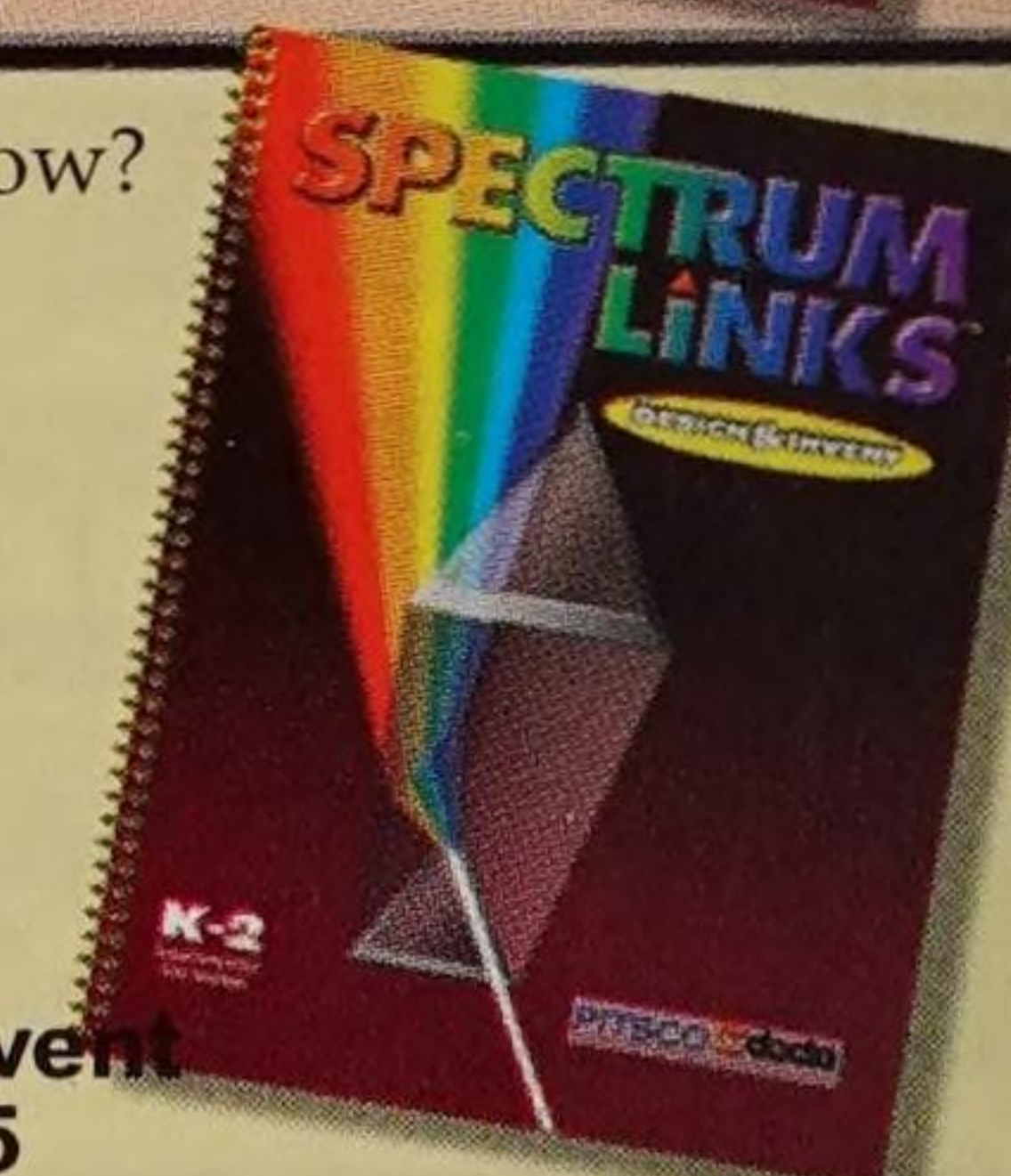
N990027 K-2 Shape & Structure Curriculum Guide—\$13.95



DESIGN & INVENT

- How Does Your Garden Grow?
- Animals
- Fencing Fun
- Touch and Tell
- Looking Through Colors
- Design and Make a House
- Cinderella's Castle

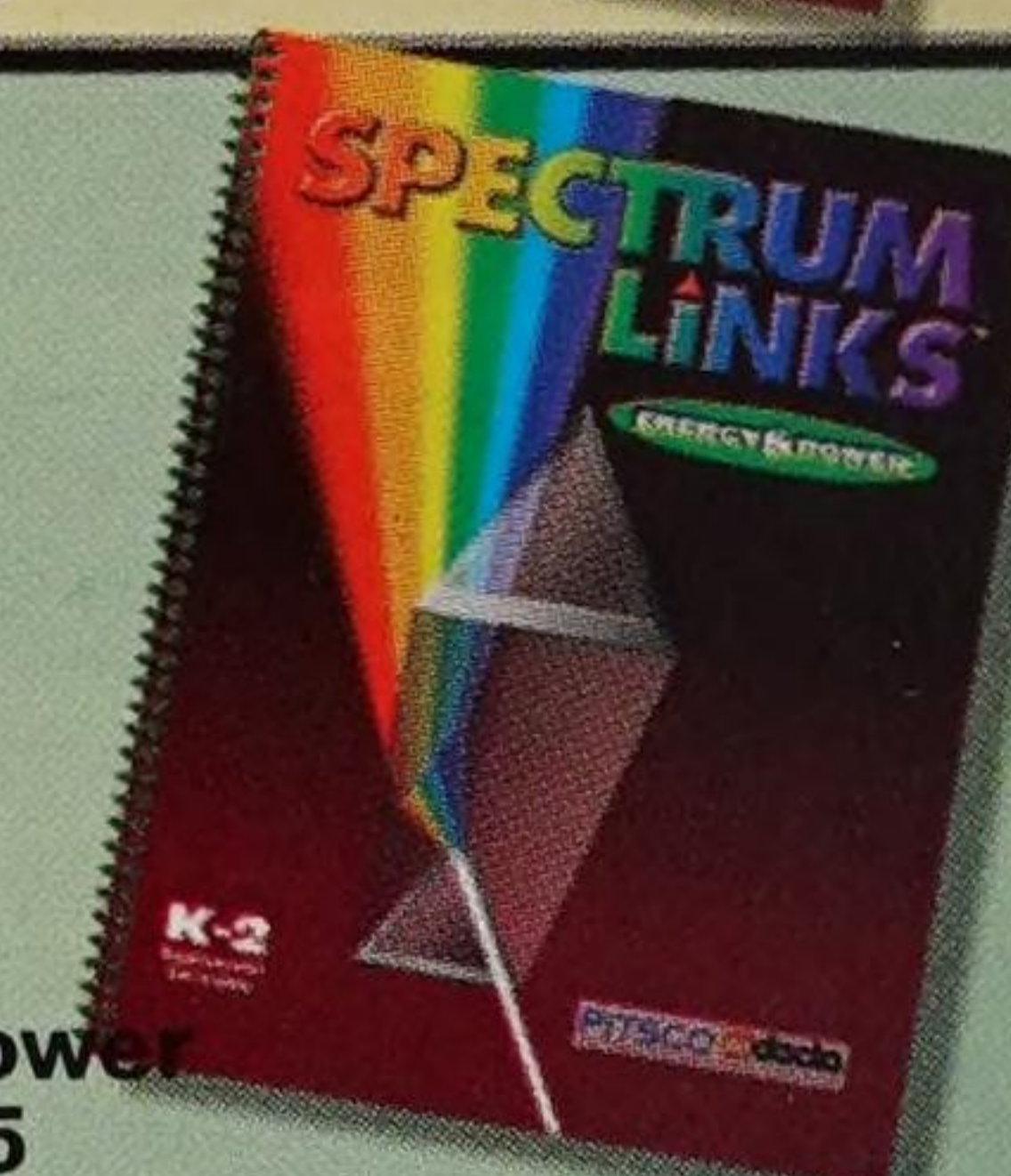
N990030 K-2 Design & Invent Curriculum Guide—\$13.95



ENERGY & POWER

- Hear, Hear
- Twang!
- Make and Shake
- Hot or Cold?
- Jack Flash

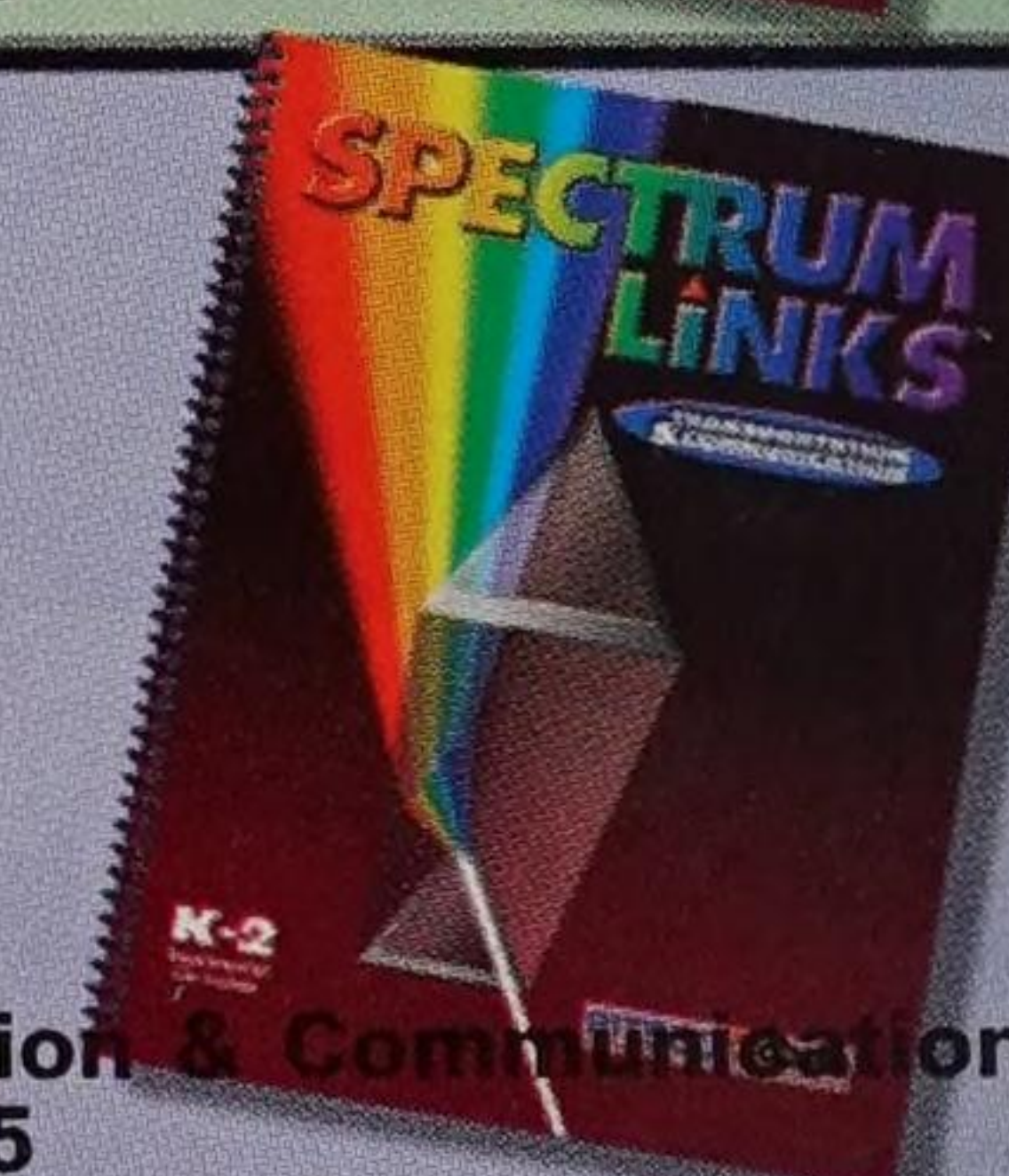
N990033 K-2 Energy & Power Curriculum Guide—\$13.95



TRANSPORTATION & COMMUNICATION

- Push, Push!
- Push a Car
- Pull, Pull!
- Floaters
- Floating or Sinking
- Glug or Go?
- Lifeboat
- Give Me a Sign

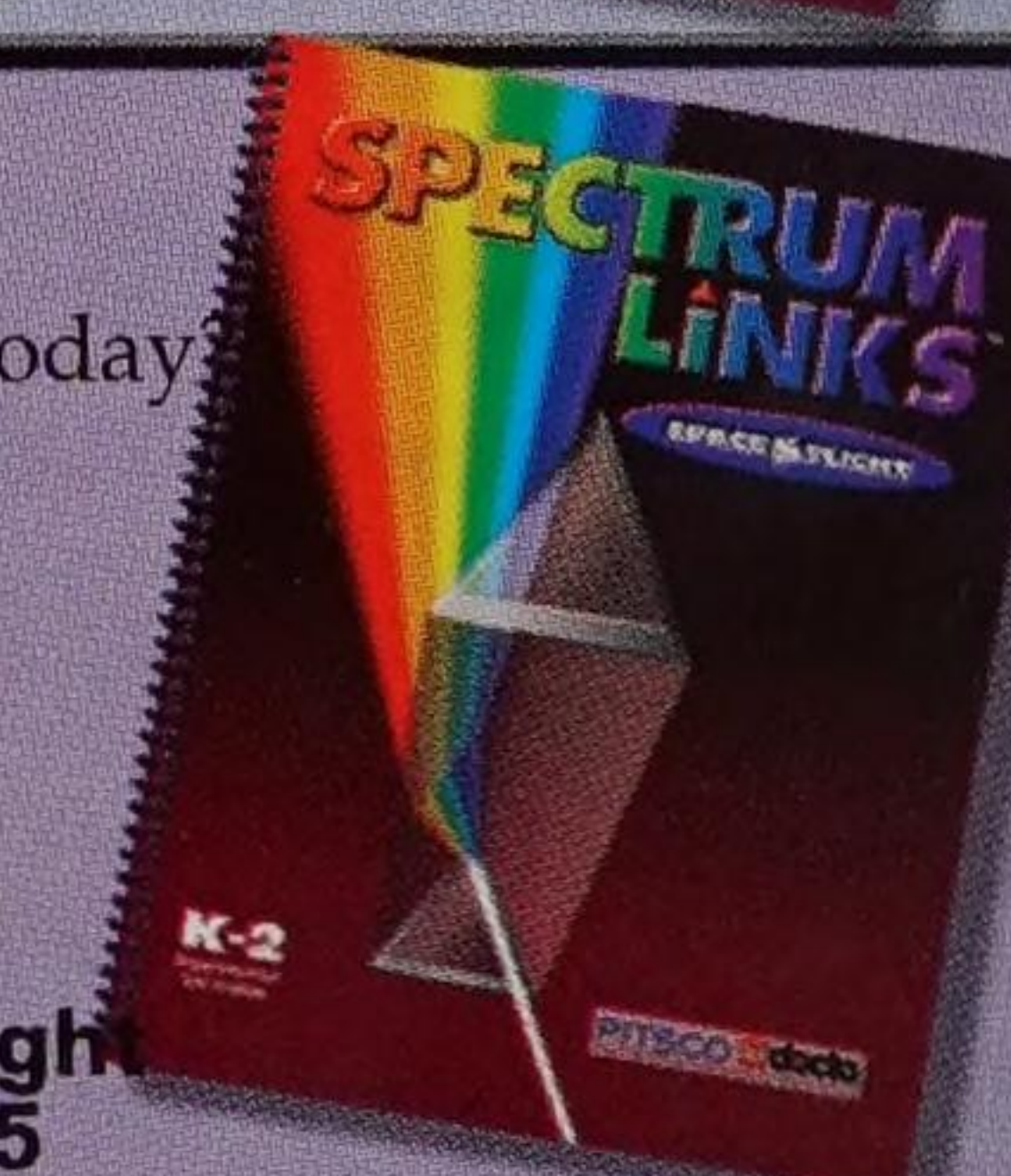
N990036 K-2 Transportation & Communication Curriculum Guide—\$13.95



SPACE & FLIGHT

- Oh, Blow
- Flap Jack
- What is the Weather Like Today?
- Wind Indicator
- Free Fall
- Whirligig
- Sail Away!

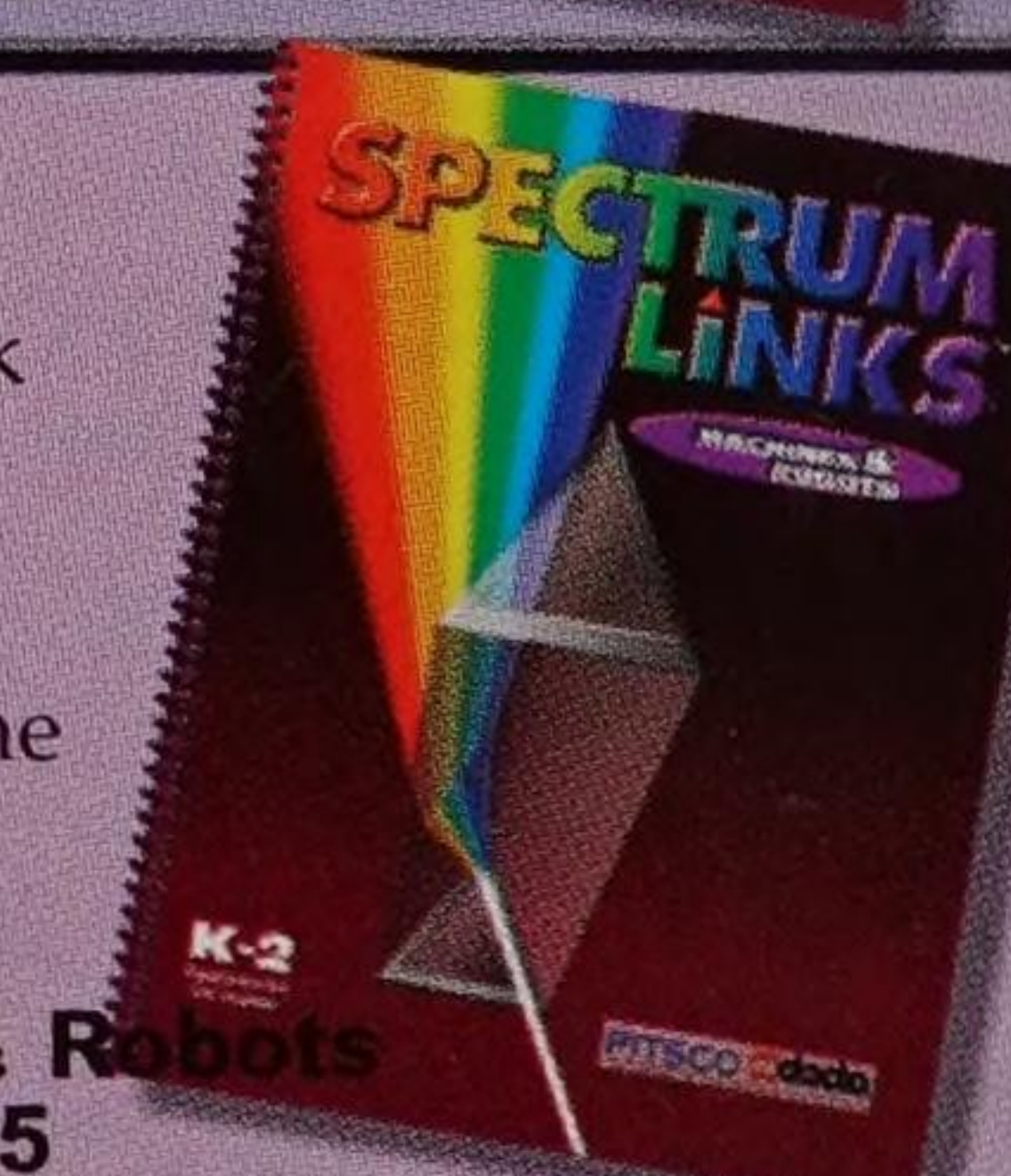
N990039 K-2 Space & Flight Curriculum Guide—\$13.95



MACHINES & ROBOTS

- Sand and Water Clocks
- Making a Sand Tower
- Investigating a Water Clock
- The Clown's Eyes
- A Merry-Go-Round
- Which Way, How Fast?
- The Paper Crimper Machine
- Robots

N990042 K-2 Machines & Robots Curriculum Guide—\$13.95



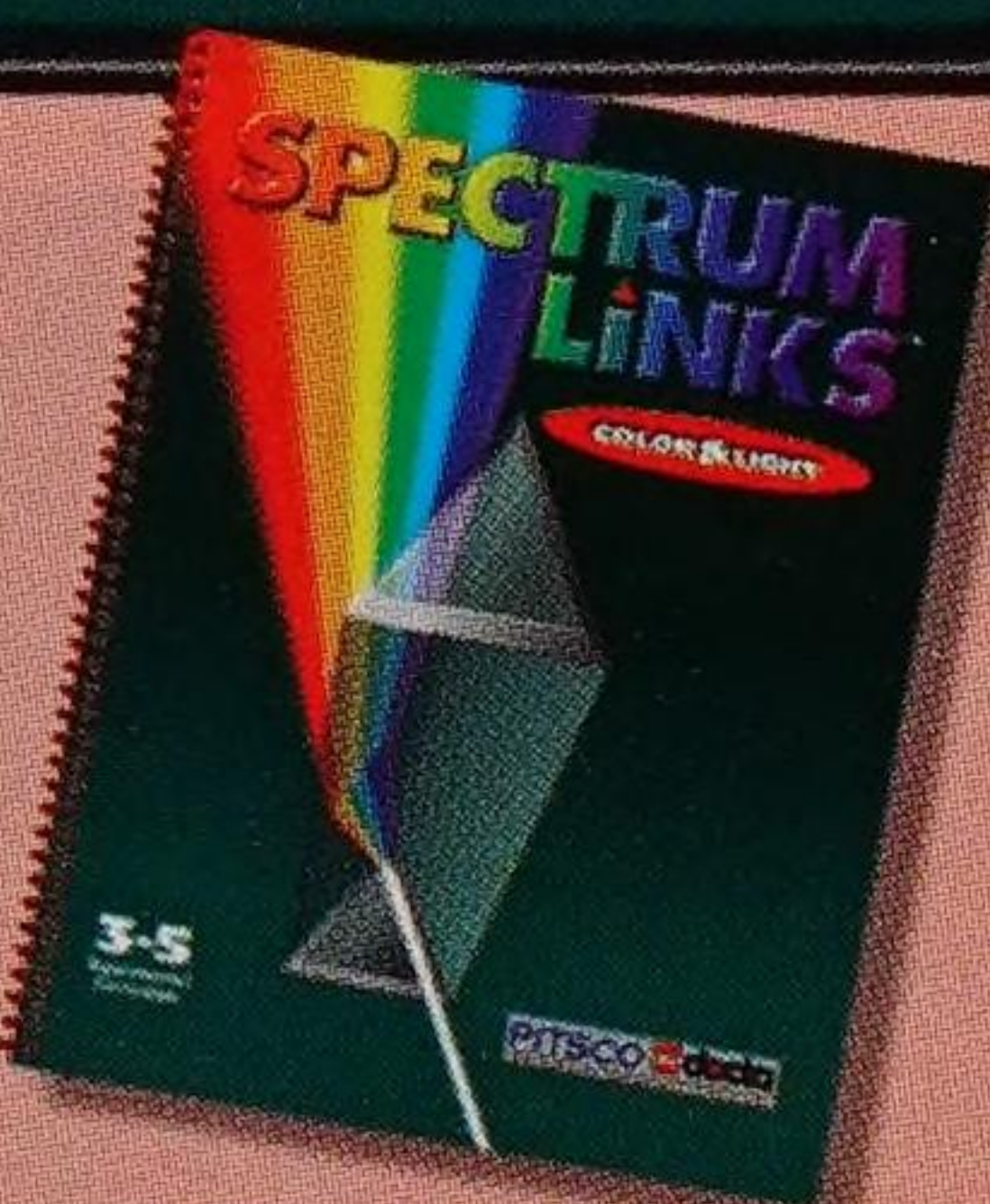
N990047 K-2 Curriculum Guide Series—\$90

GRADES 3-5

COLOR & LIGHT

- Spinning Colors
- Hot and Cold Colors
- Red Is For Danger
- What Colors Make Black?
- Pinhole Camera

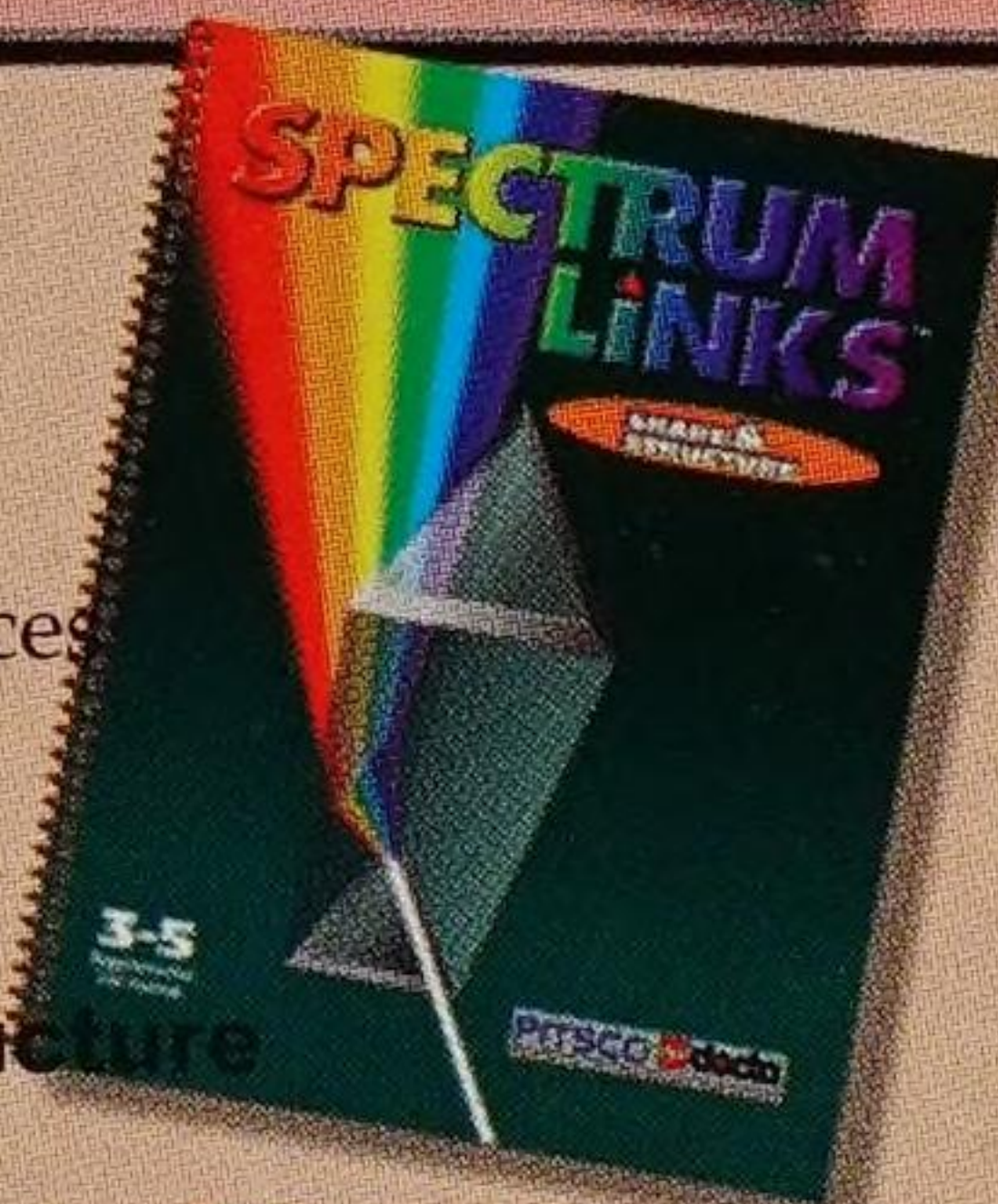
N990025 3-5 Color & Light Curriculum Guide—\$13.95



SHAPE & STRUCTURE

- Foundations
- Making and Testing Bricks
- Lighting a House
- Stage Struck
- A Bridge Too Far
- Exploring Structures and Forces
- Scaffolding and Framework

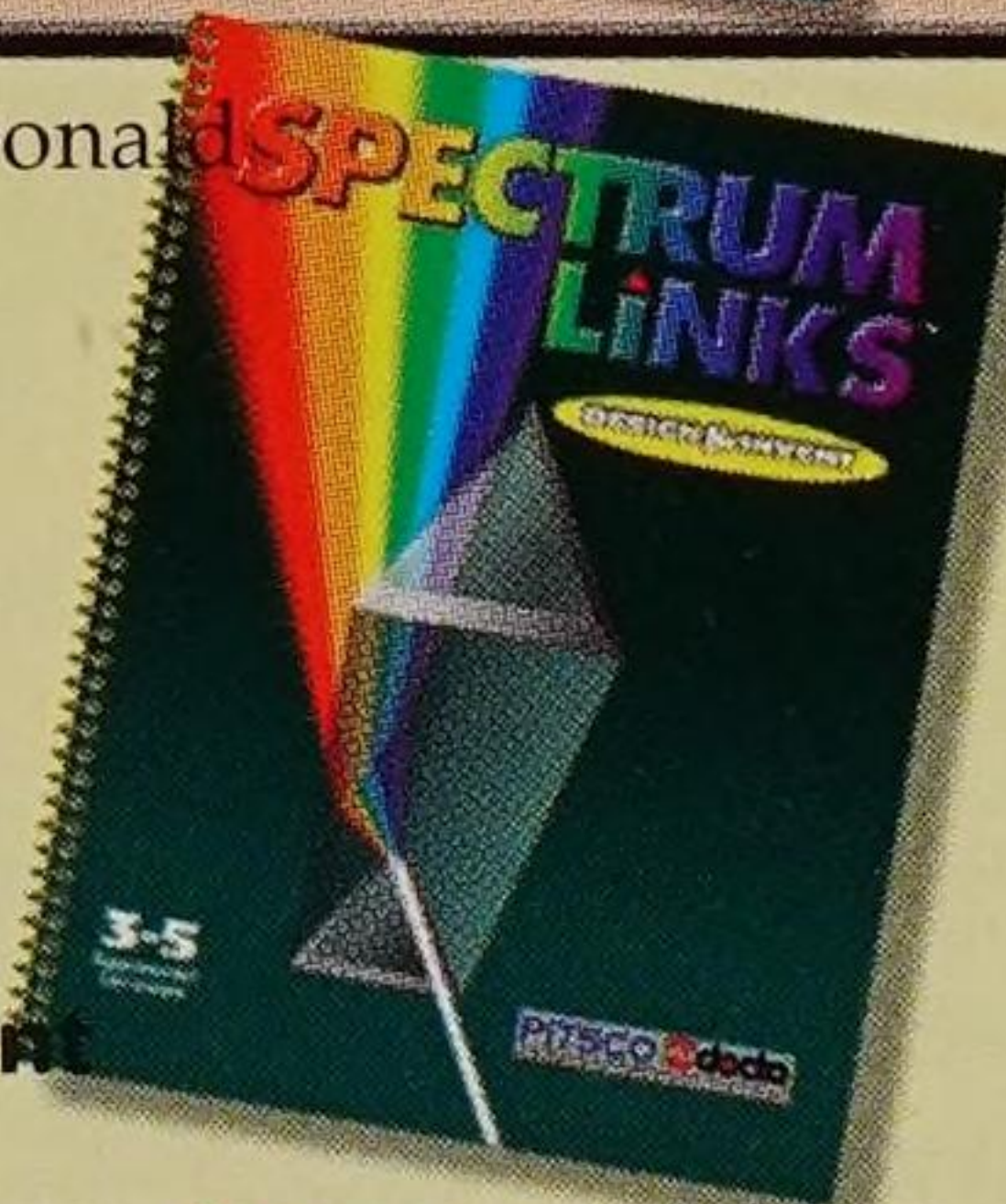
N990028 3-5 Shape & Structure Curriculum Guide—\$13.95



DESIGN & INVENT

- A Greenhouse for Miss MacDonald
- Egg Packaging
- Robinson Crusoe's Shelter
- Make a Paper Fabric Clock
- Keeping Warm

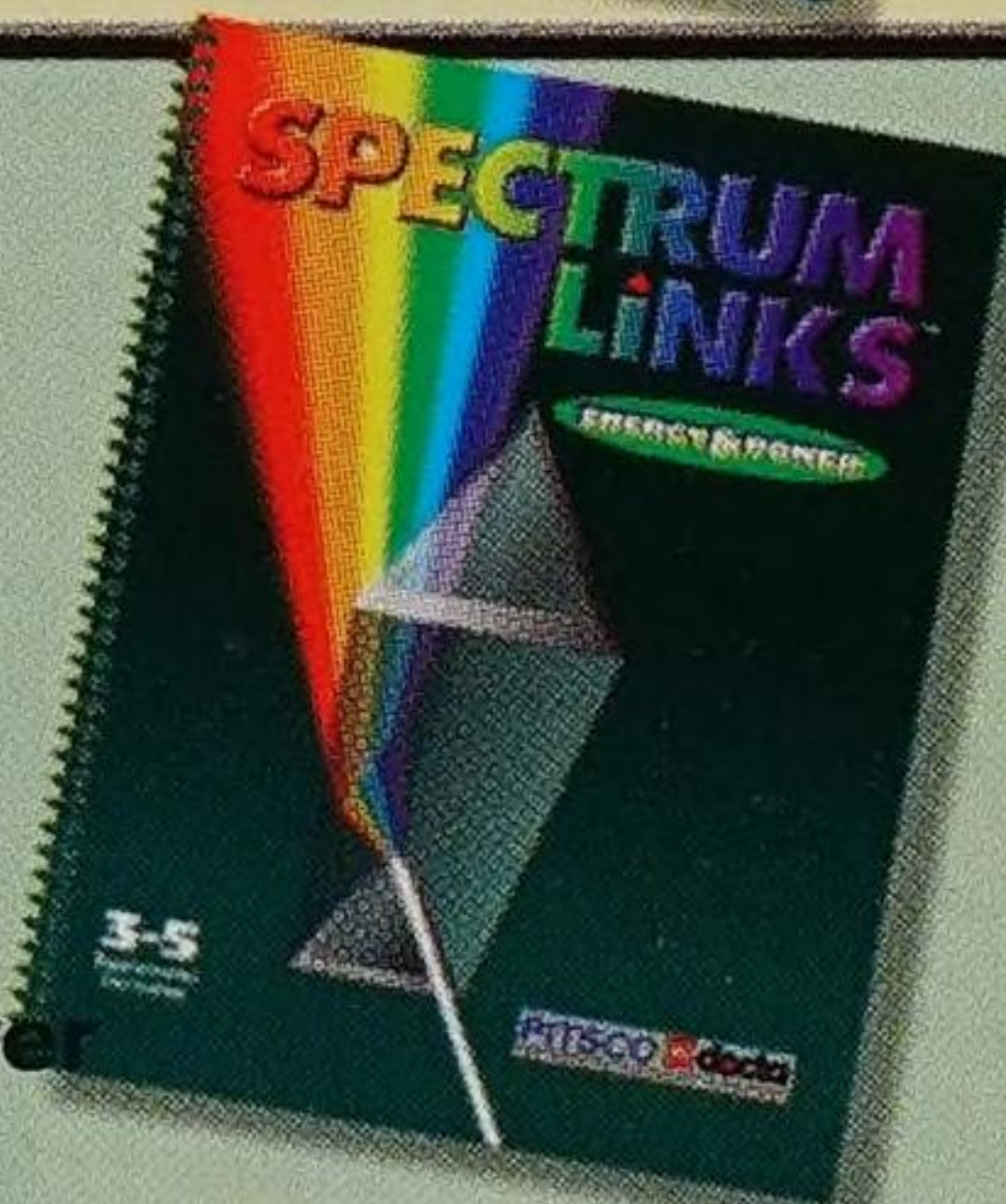
N990031 3-5 Design & Invent Curriculum Guide—\$13.95



ENERGY & POWER

- Sounds on the Move
- Telephones
- Lighthouses
- Traffic Lights
- Alarm
- Robo Car
- How Do We Keep Warm

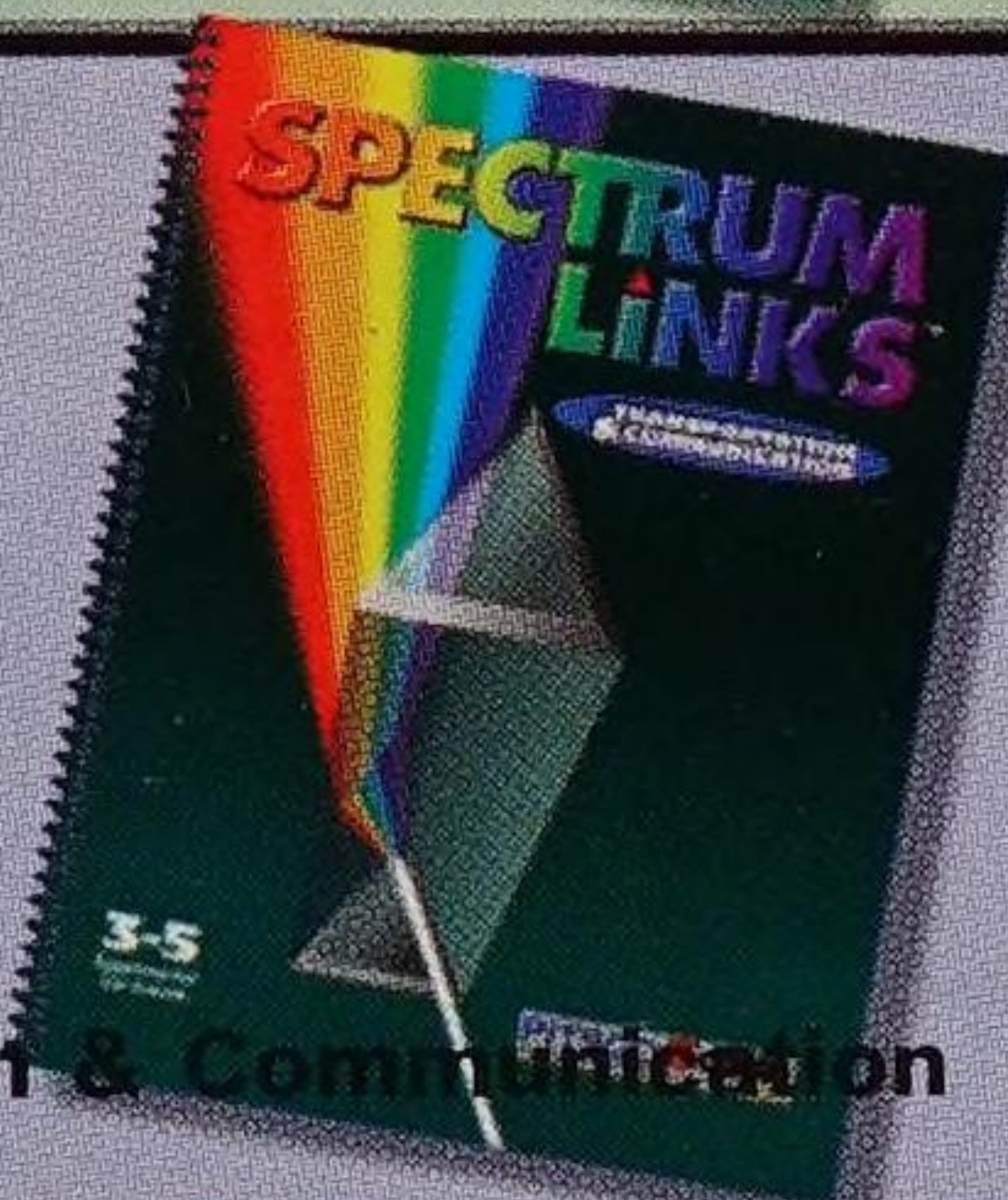
N990034 3-5 Energy & Power Curriculum Guide—\$13.95



TRANSPORTATION & COMMUNICATION

- Rolling and Sliding
- Cars and Ramps
- Racing Cars
- Paddle Boats
- But, Does It Work?
- Wheels and Axles
- Land Yachts
- Truck Loads
- Joe's Carry All

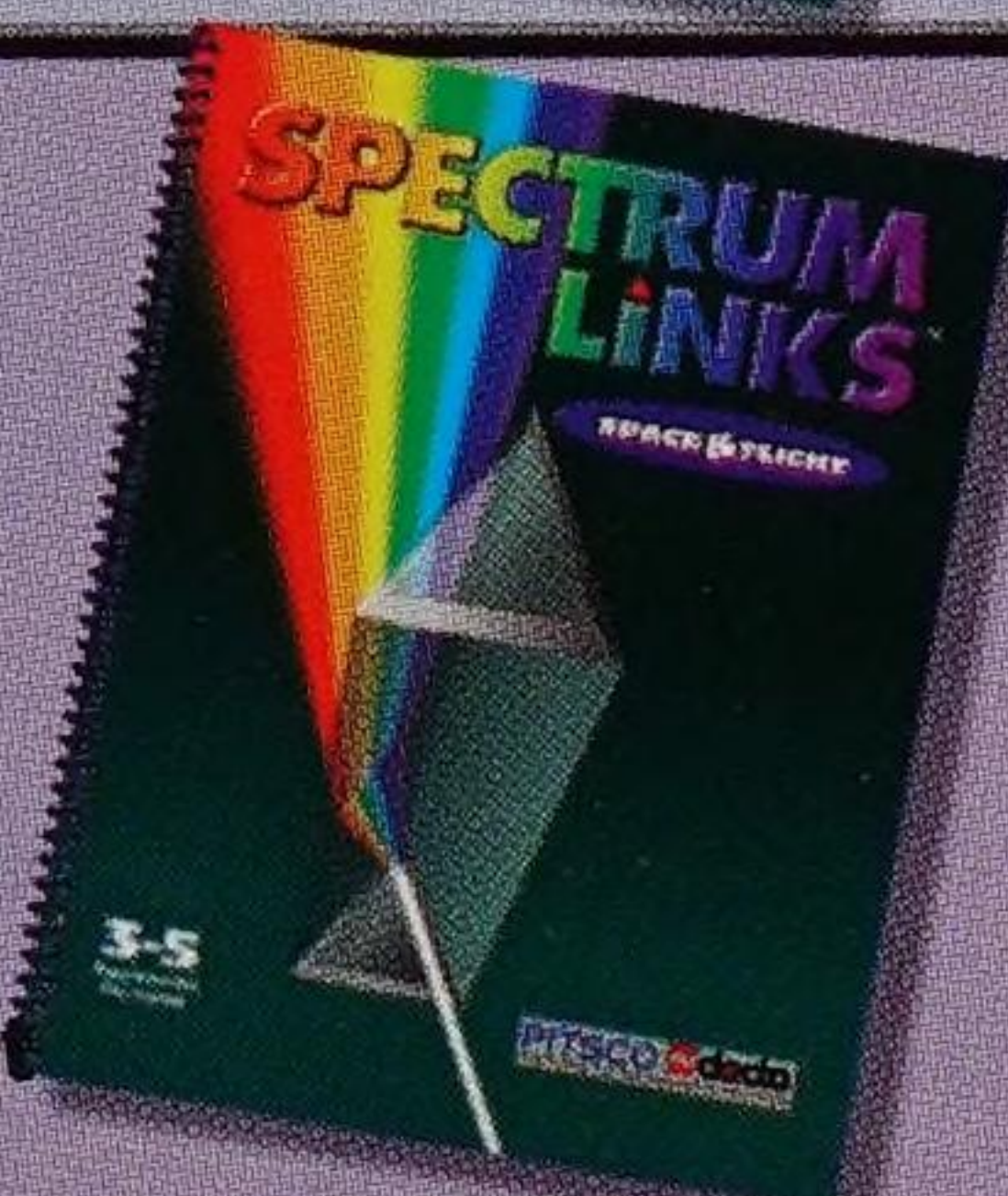
N990037 3-5 Transportation & Communication Curriculum Guide—\$13.95



SPACE & FLIGHT

- Fly Past
- My Flyer
- Helicopters
- Wing Shapes
- Parachutes
- Kites

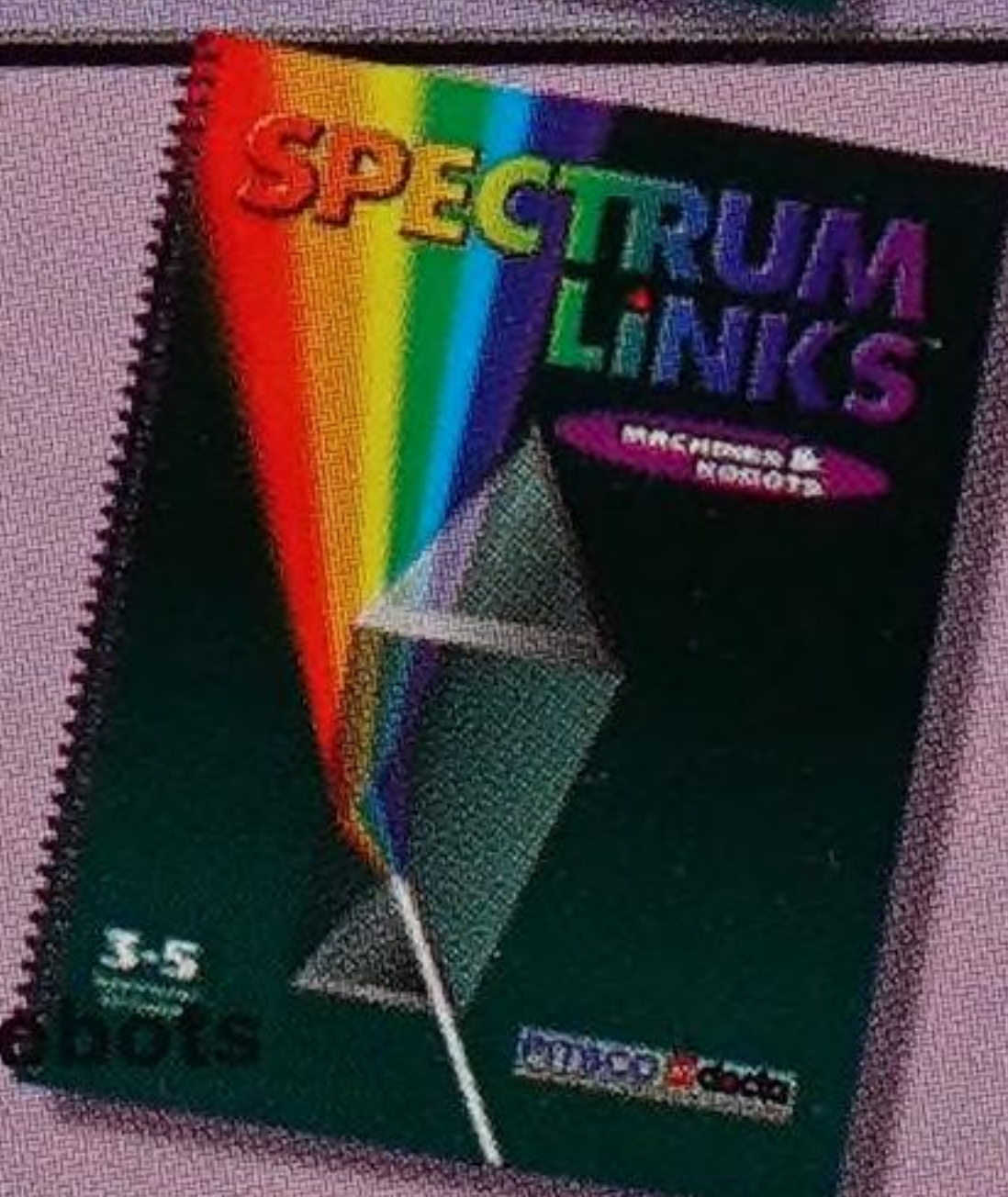
N990040 3-5 Space & Flight Curriculum Guide—\$13.95



MACHINES & ROBOTS

- Timing with a Marble
- Candle Clocks
- One Second Pendulum
- Stow Away
- Come to the Circus
- Light Robots
- Reach Out

N990043 3-5 Machines & Robots Curriculum Guide—\$13.95



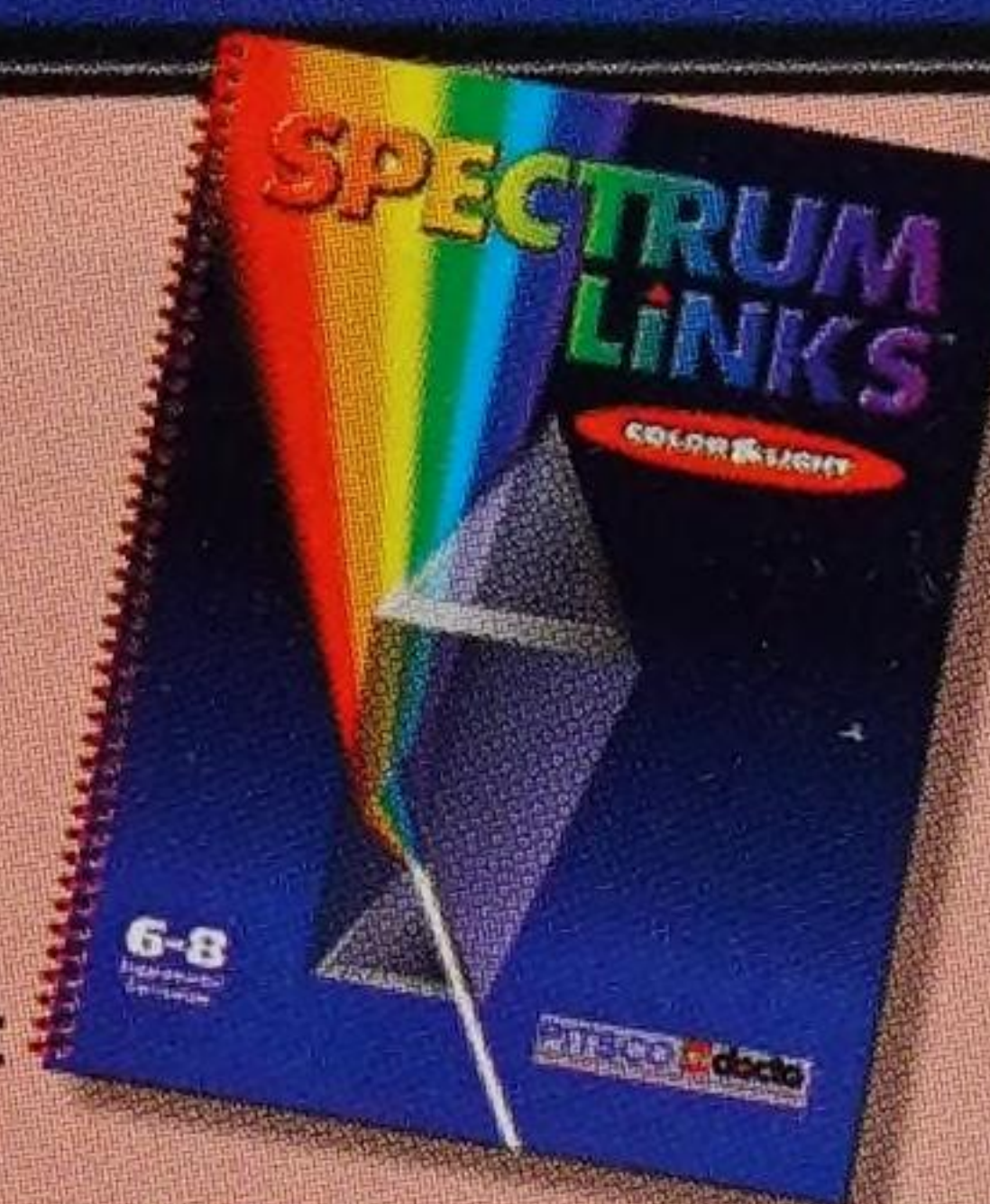
N990048 3-5 Curriculum Guide Series—\$90

GRADES 6-8

COLOR & LIGHT

- Camouflage
- The Rainbow
- Colored Lights
- White Light
- Ceiling Fan

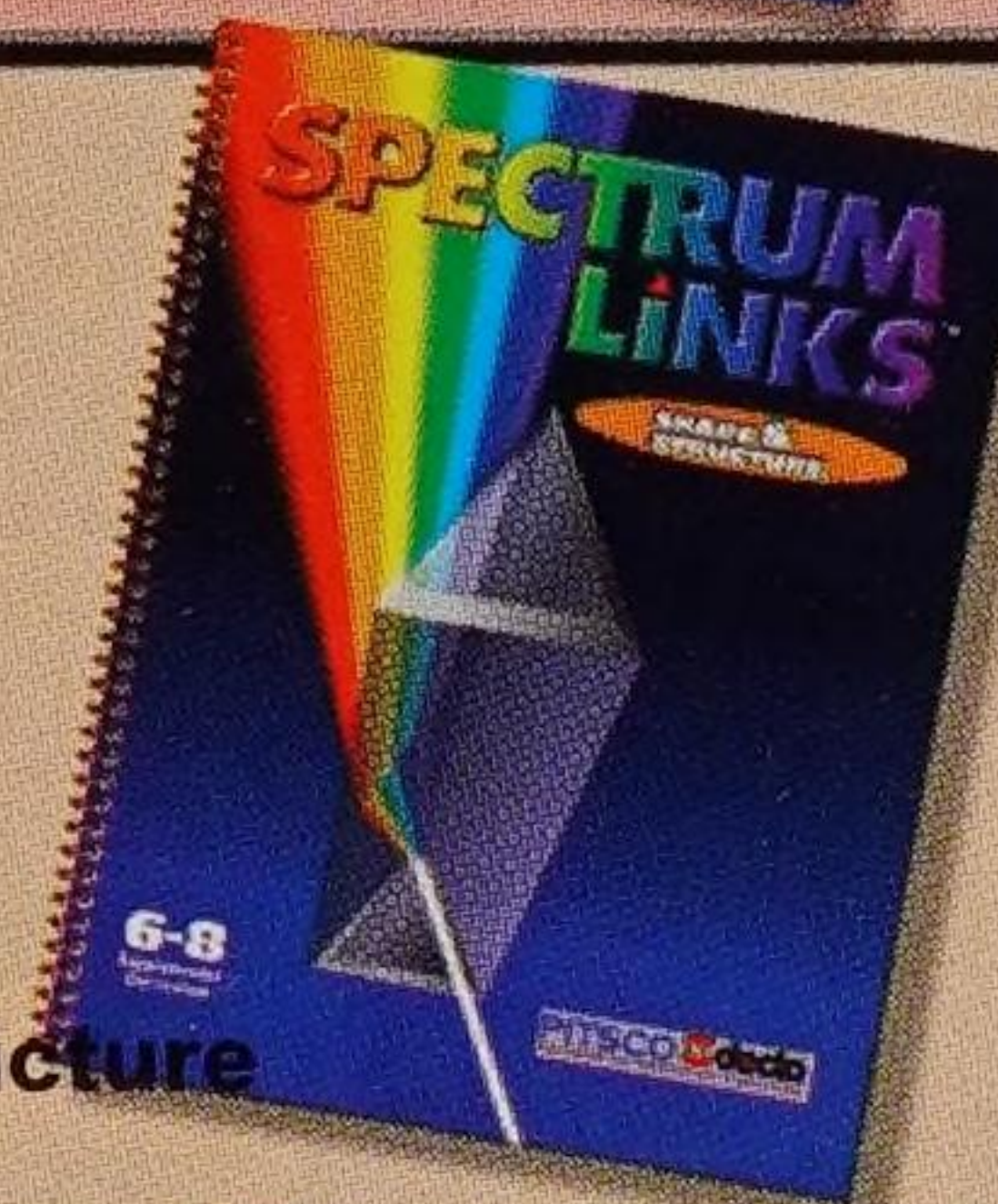
N990026 6-8 Color & Light Curriculum Guide—\$13.95



SHAPE & STRUCTURE

- Tunneling
- Roofs
- Towers
- Bridges Deluxe
- Building a Road

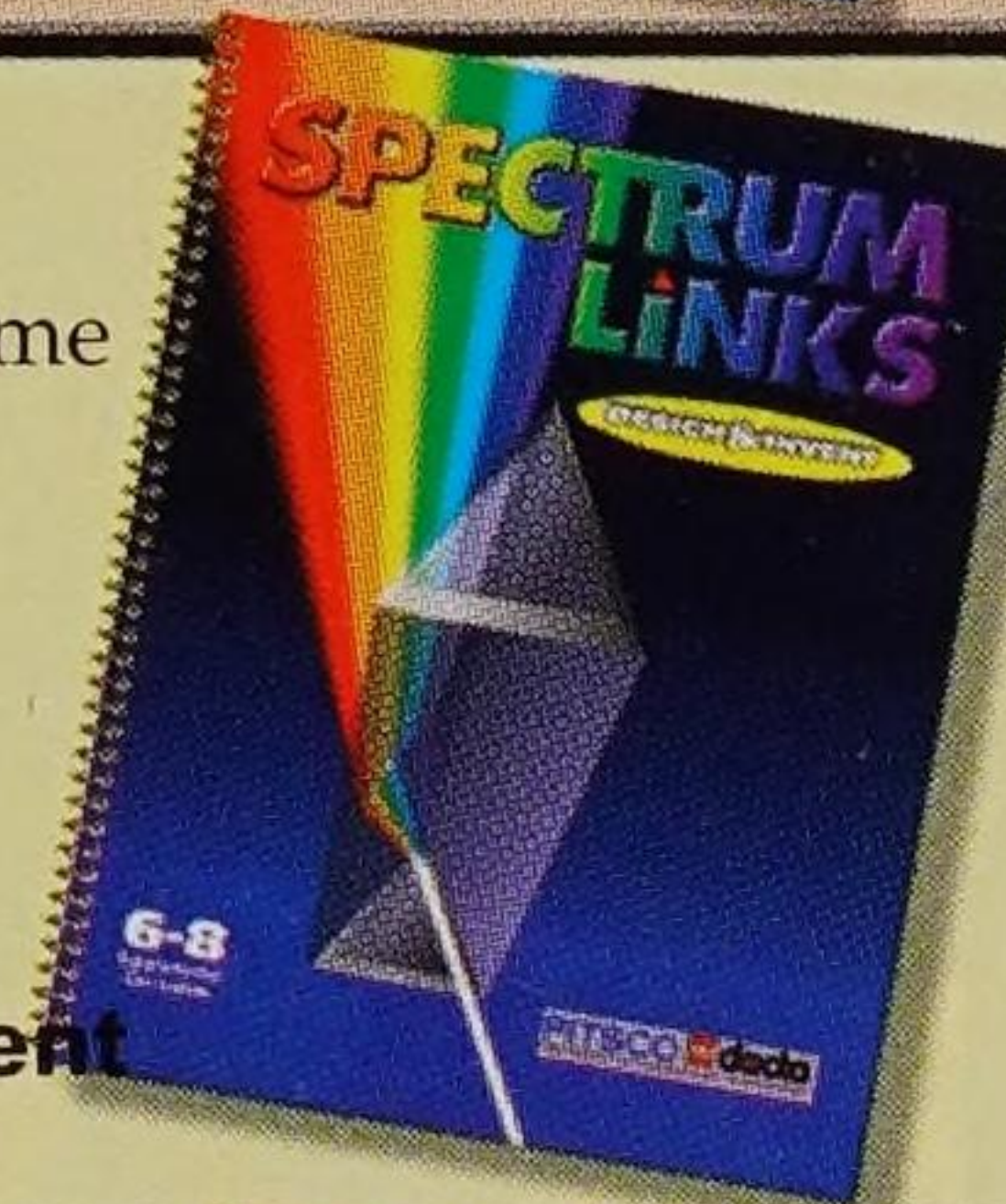
N990029 6-8 Shape & Structure Curriculum Guide—\$13.95



DESIGN & INVENT

- Candles and Lamps
- A Repeater Alarm
- Designing and Making a Game
- Balloon Clock
- Challenges
- Door Lock System
- Signaling
- Shipwreck

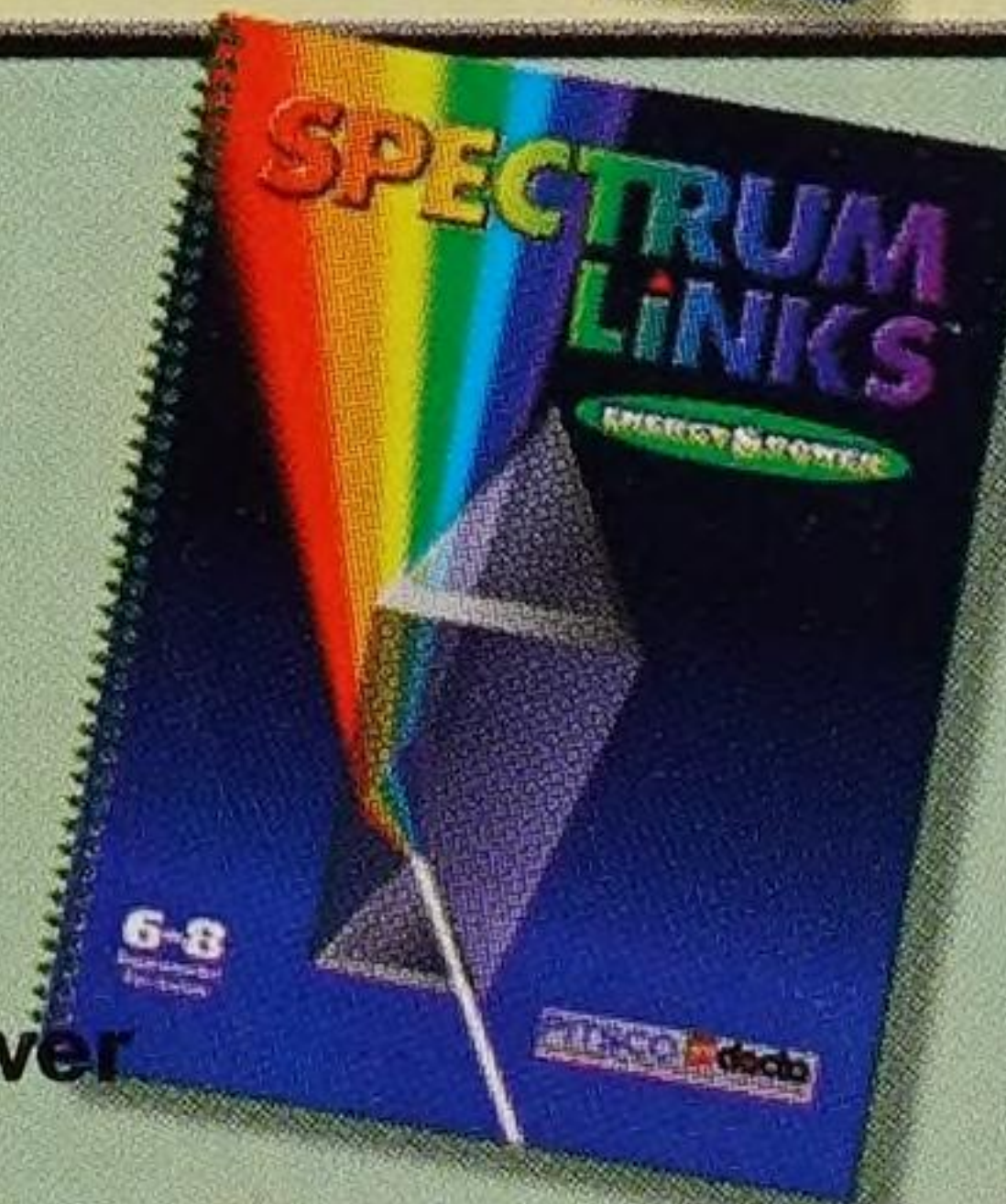
N990032 6-8 Design & Invent Curriculum Guide—\$13.95



ENERGY & POWER

- Lights
- Controlled Traffic Lights
- Exploring Pulleys
- Exploring Gears
- Wind and Water Power
- Water Music
- Making Electricity

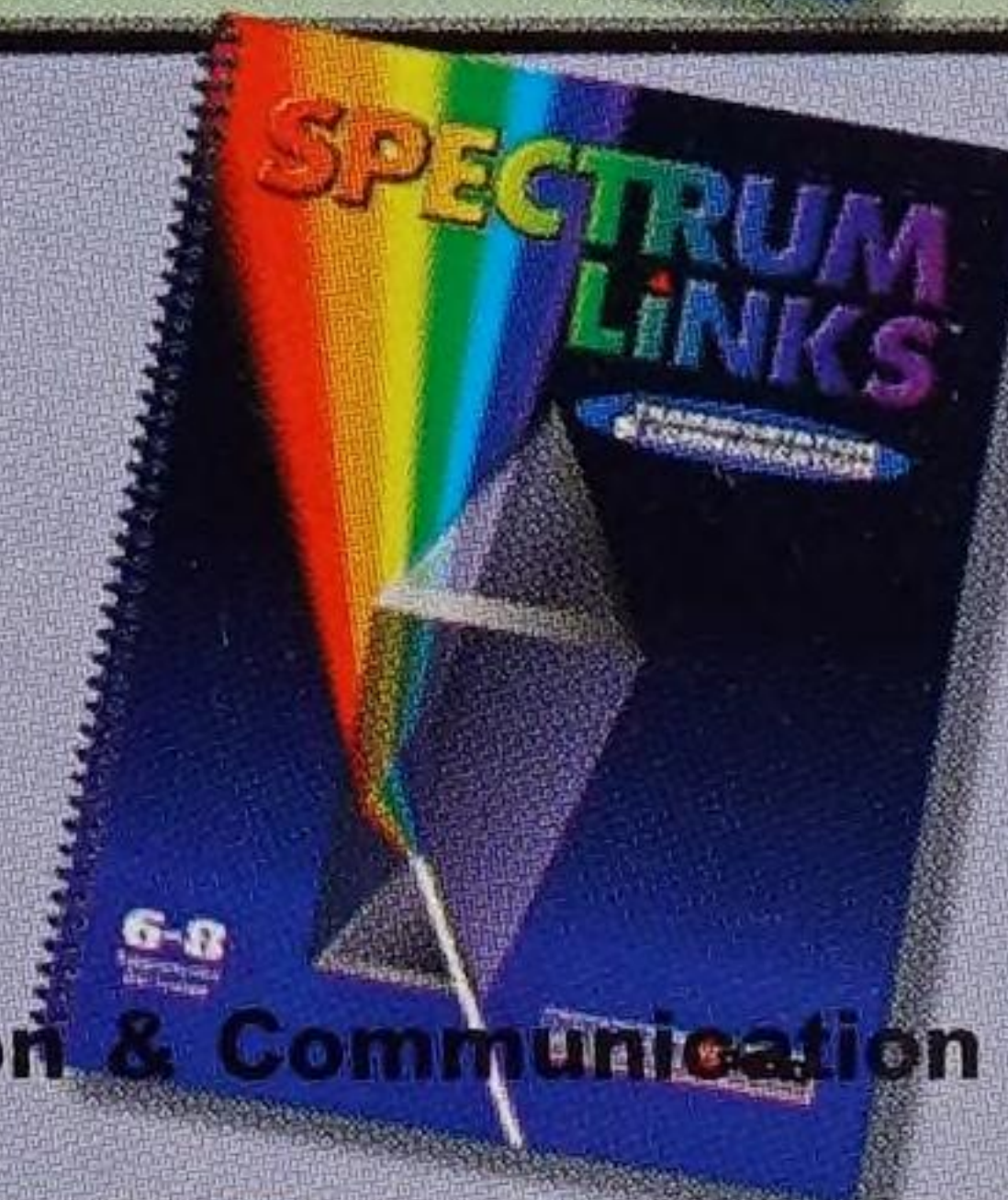
N990035 6-8 Energy & Power Curriculum Guide—\$13.95



TRANSPORTATION & COMMUNICATION

- Balloon-Powered Car
- Boat Loads
- Buggies
- Up the Ramp
- Solar-Powered Car
- Sailing Boats
- Flood Warning
- Crash Barriers
- Robotrike

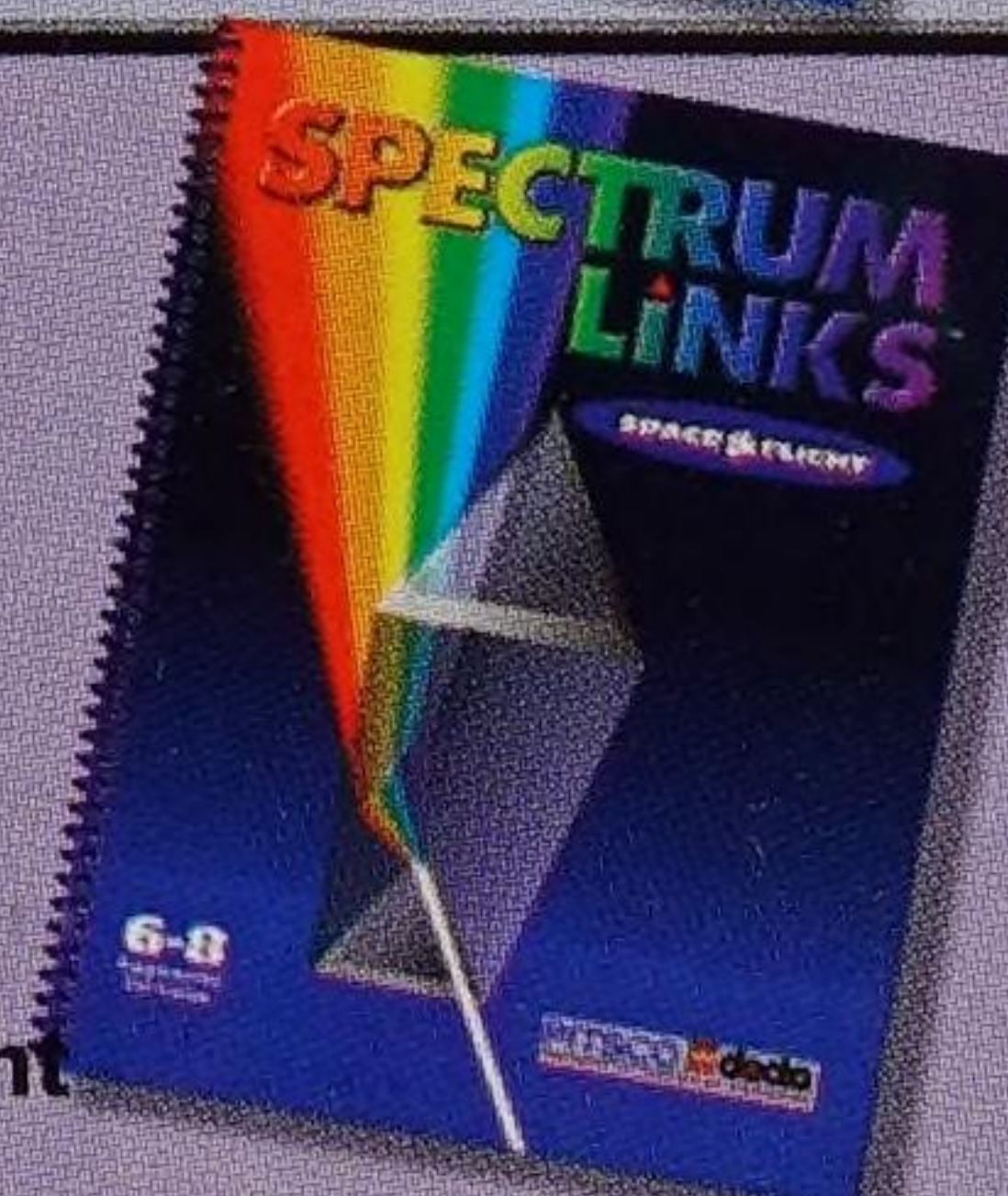
N990038 6-8 Transportation & Communication Curriculum Guide—\$13.95



SPACE & FLIGHT

- Rockets
- Jets
- Propellers
- Moon Buggy
- Satellite
- Red Rover

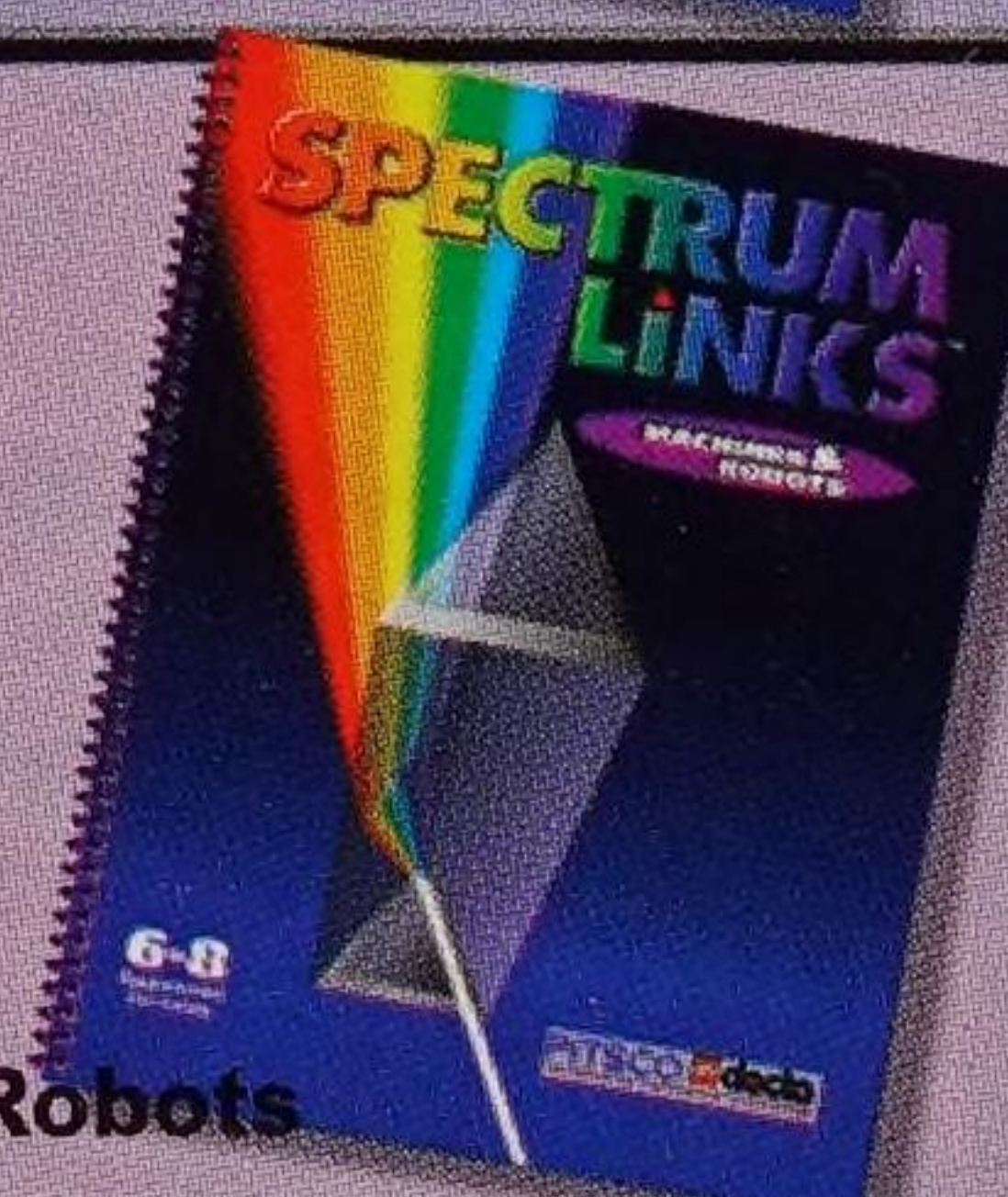
N990041 6-8 Space & Flight Curriculum Guide—\$13.95



MACHINES & ROBOTS

- Using Pulleys
- Motorized Conveyor Belt
- Motorized Crane
- Catapults
- Drum Pedal
- Gears
- Multi-Robot
- Motorized Windshield Wipers
- Dactasaur
- Robot Arm
- Robot Arm and Conveyor Belt

N990044 6-8 Machines & Robots Curriculum Guide—\$13.95



N990049 6-8 Curriculum Guide Series—\$90

Education
makes us what
we are.
C.A. Helvetius



LEGO
duplo



New!

**LEGO DUPLO BASIC
BRICK RUNNER #779067**

119 elements

One day a railway, the next day a traffic lane. The Brick Runner set has curved and straight rails and can be extended with existing LEGO DUPLO bricks to an endless lane! Includes a bascule bridge, wagons, and a ferry. For children 2 years and older.

N779067—\$50.50



LEGO
duplo



LEGO DUPLO BASIC MEDIUM BULK #779065 **New!**

114 elements

These bricks in different shapes and colors can add even more building possibilities to existing LEGO DUPLO collections.

N779065—\$30.25

LEGO
duplo



LEGO DUPLO BIG BULK #779066 **New!**

240 elements

Perfect for starting a LEGO DUPLO collection or for adding even more bricks and building possibilities to an existing collection. Includes bricks in different shapes and bright colors.

N779066—\$48.75

Fax Orders Free
1-888-534-6784

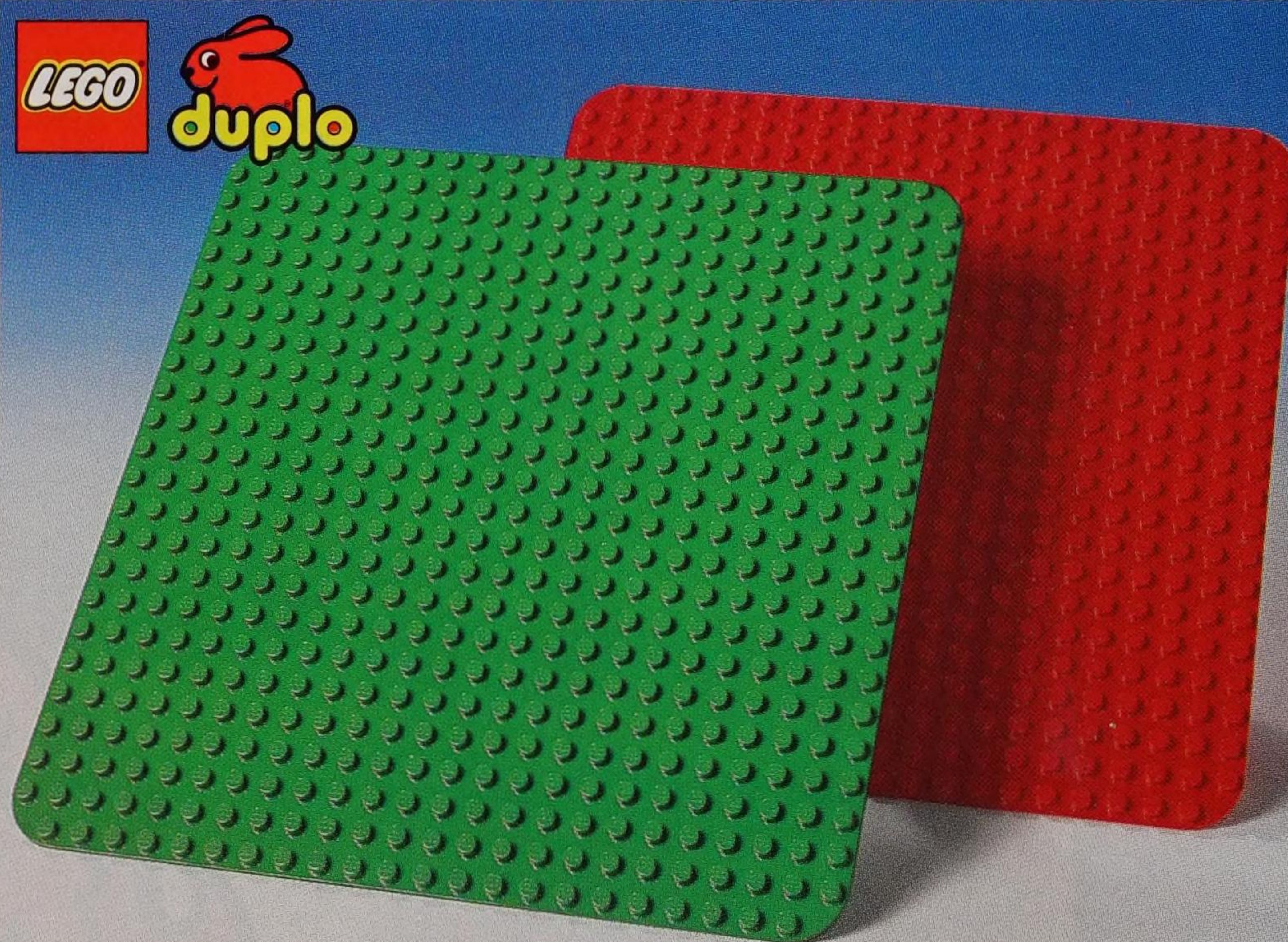


LEGO DUPLO BASIC DISCOVERY SET #779083 **New!**

146 elements

This exciting set includes lots of fun, new elements so children can build a play area complete with a tubular slide and tunnels, a train with three cars, two trikes, four ghosts, six figures, four balls, and much more. The new play possibilities are endless. Perfect for children 2 years and older.

N779083—\$73.75



LEGO DUPLO BUILDING PLATES #779071 **New!**

Two large 15" x 15" stud building plates provide the perfect foundation for a preschooler's creativity.

N779071—\$19

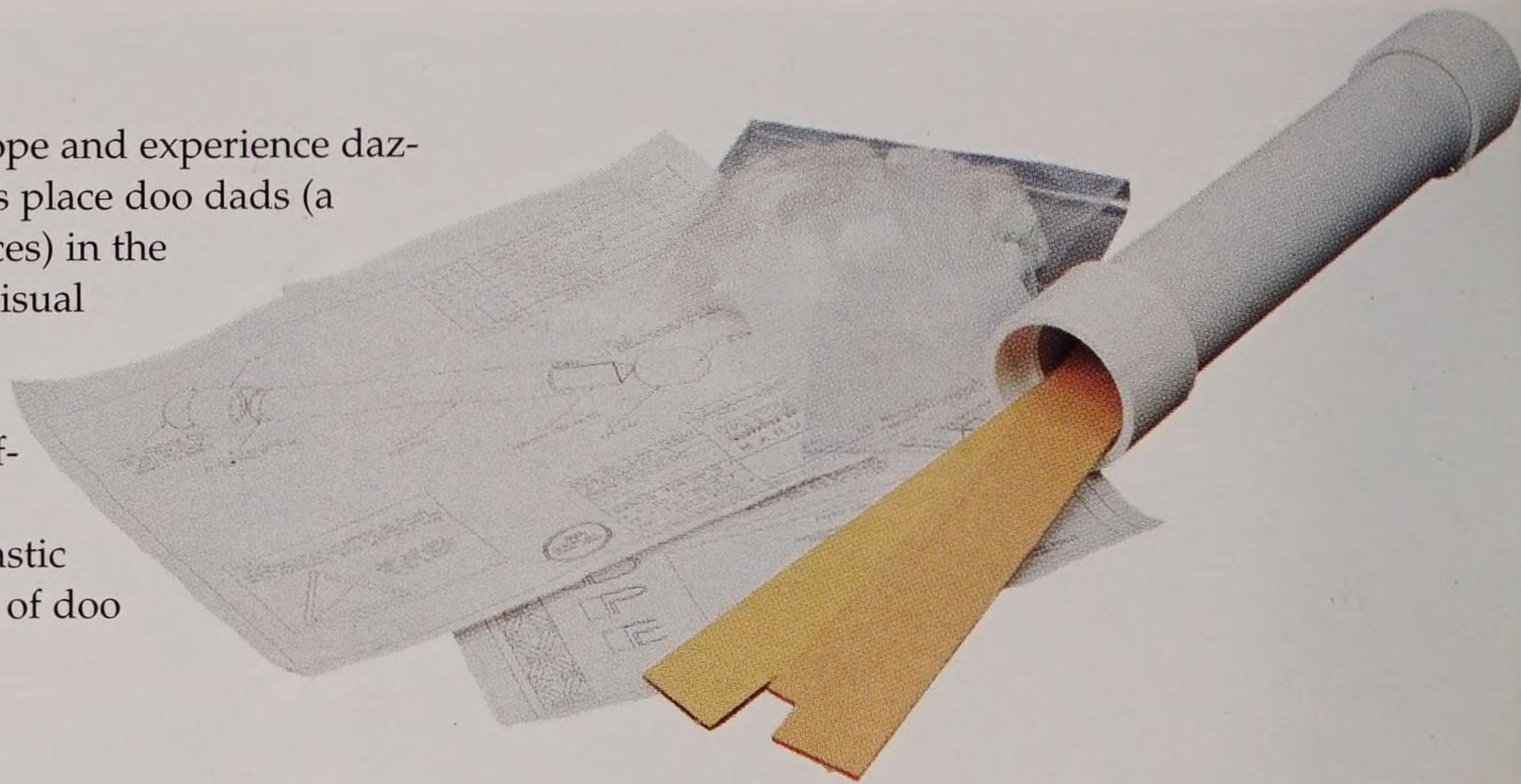
Call Us Toll Free
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PITSCO  **dacta**
PARTNERS IN INNOVATIVE EDUCATION

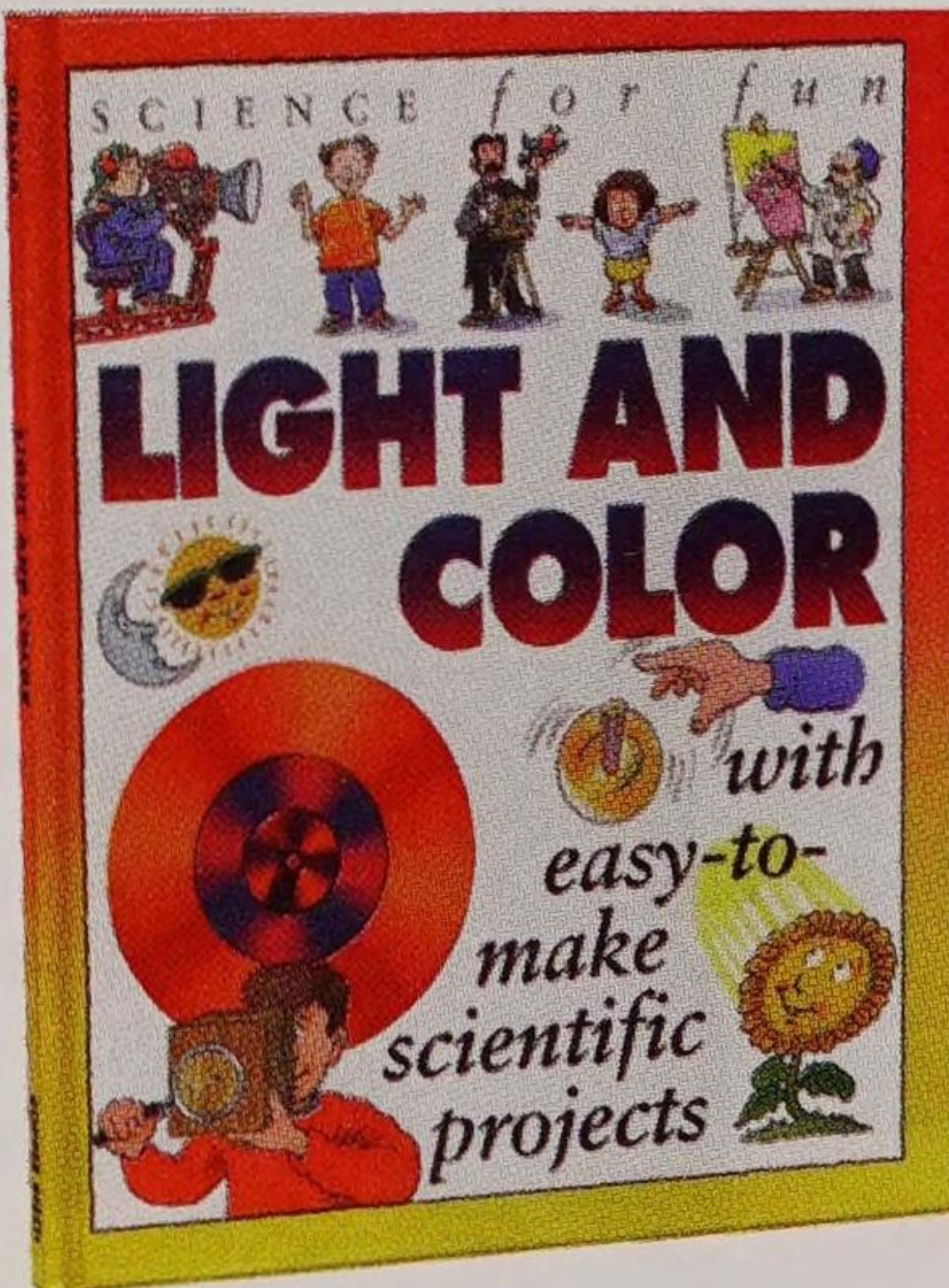
PITSCO
INNOVATIVE EDUCATION
PITSCO KALEIDOSCOPE KIT

Students can build their own kaleidoscope and experience dazzling illusions of their own making. Students place doo dads (a very technical term for assorted colorful pieces) in the illusion chamber and observe the dynamic visual effect as they rotate the barrel of the kaleidoscope. They can even reopen the illusion chamber and drop in their own objects of different colors and shapes.

All the necessary parts are included: plastic tube, end pieces, mirrors and a good supply of doo dads.

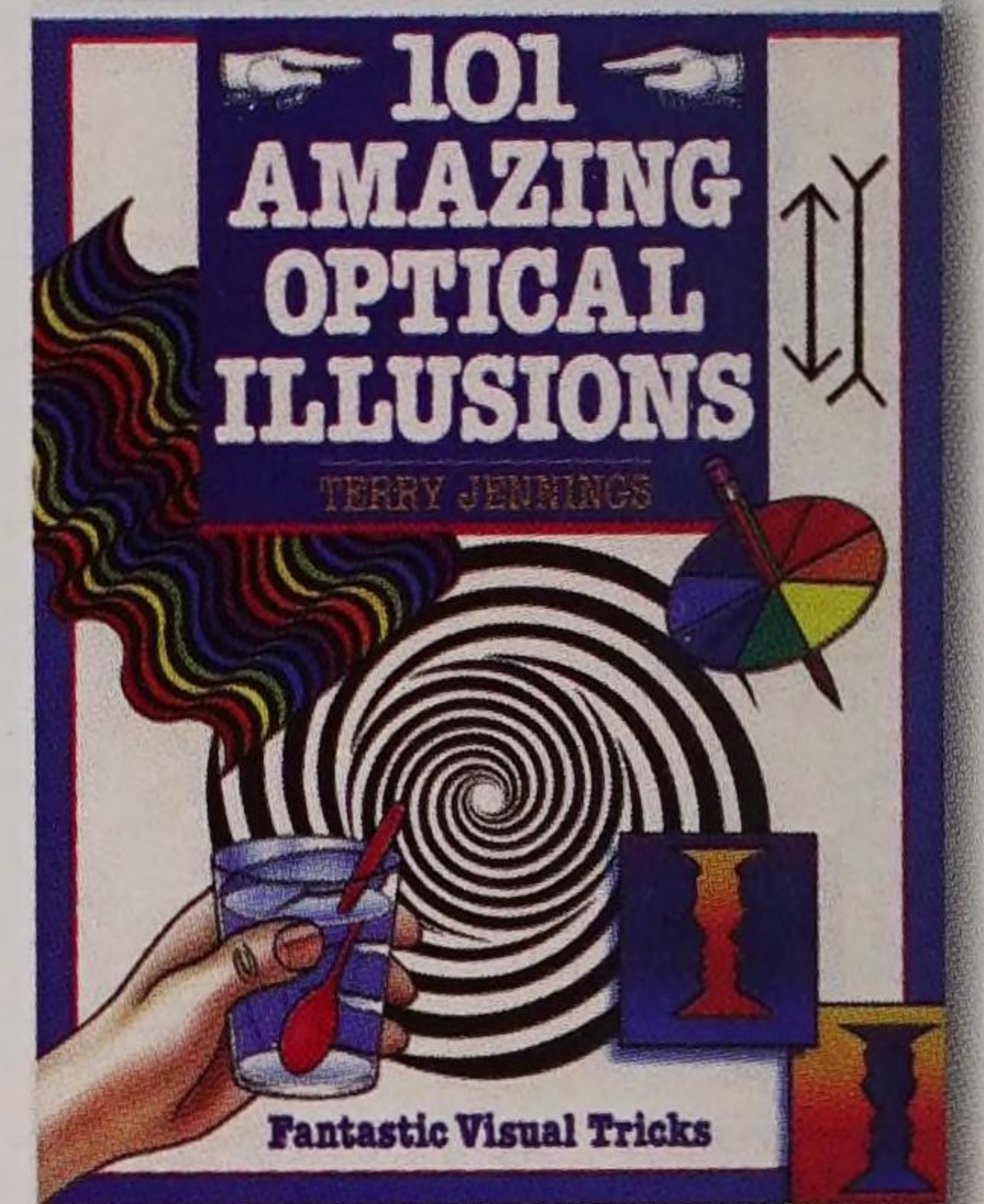
N755050—\$14.95


In the middle
of difficulty
lies
opportunity.
Albert
Einstein


**LIGHT AND COLOR:
EASY SCIENCE PROJECTS**

Gary Gibson

This book is full of easy experiments that help children understand the scientific principles of light and color. Concise, easy-to-read text and bright, colorful illustrations capture children's interest. By analyzing the results of their experiments and exploring ideas for further activities, kids will reinforce their understanding of the principle. Hardback, 32 pages.
Reading Level: Intermediate – Middle School

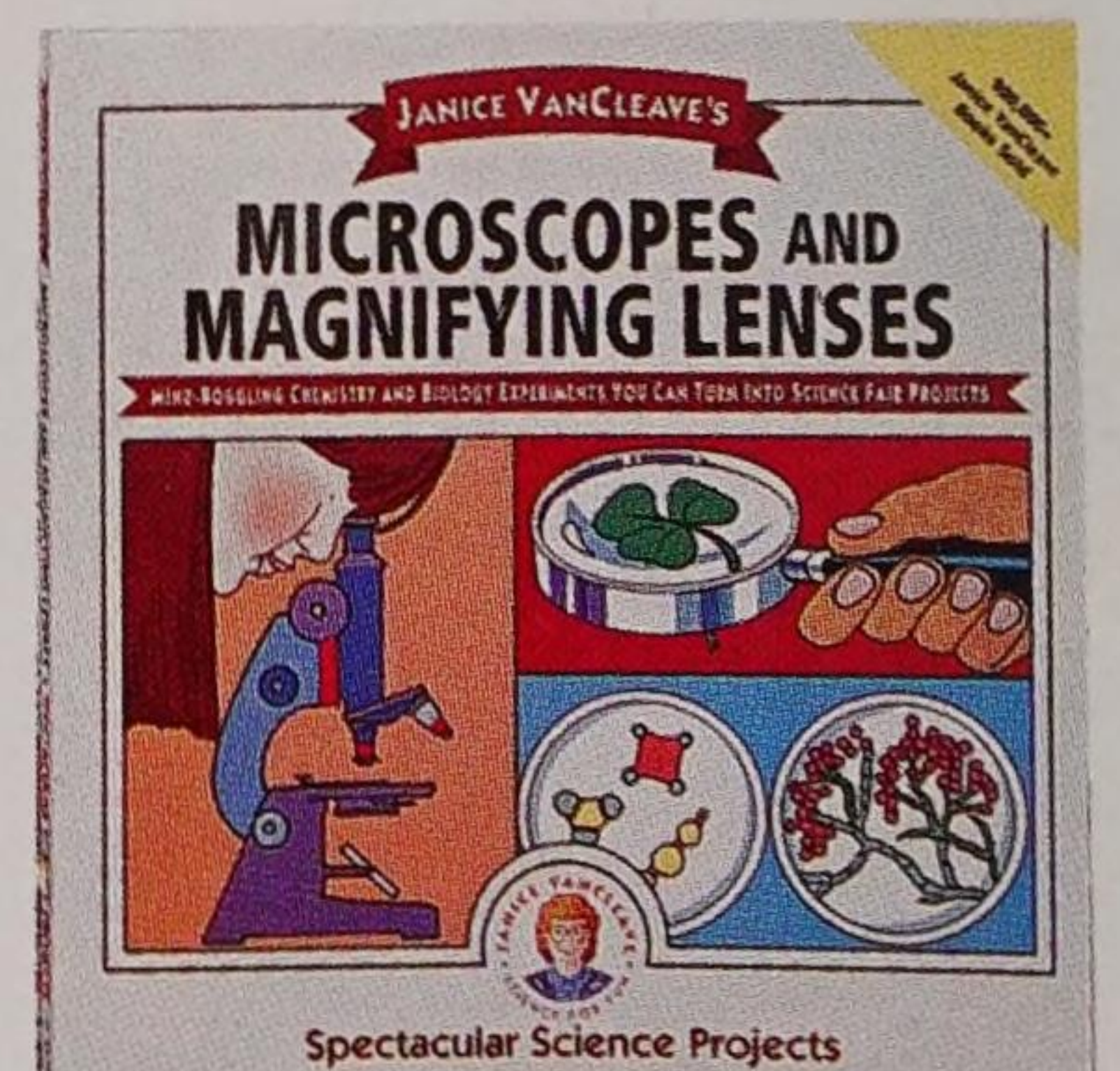
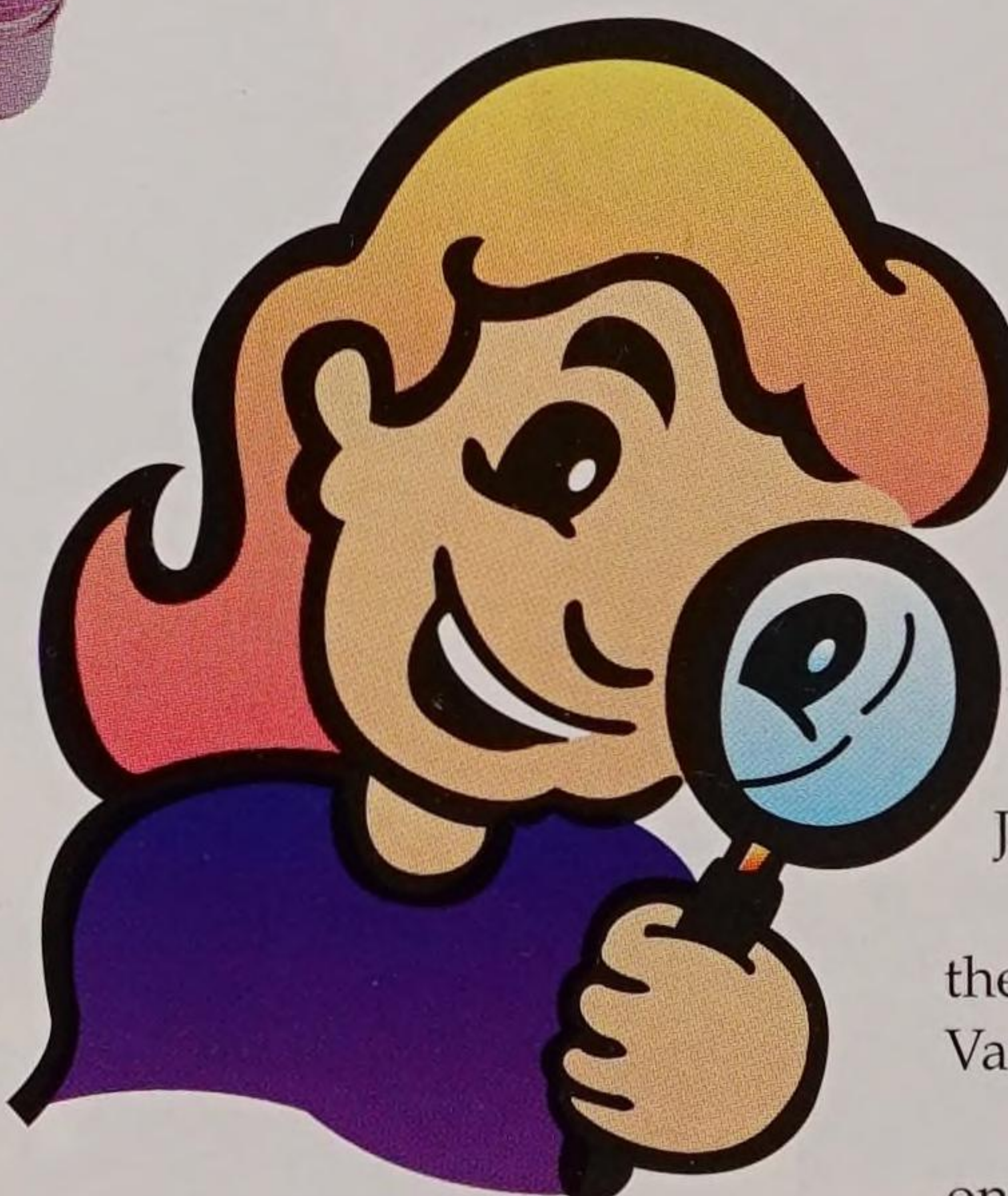
N755053—\$21

New!
101 AMAZING OPTICAL ILLUSIONS

Students can make a hole in their hands, create their own screen play for a movie strip, watch straight lines stand up and make a magic carpet fly with 101 Amazing Optical Illusions. This book teaches optical illusions that can be done with a few simple materials. The optical illusions will show students how the eyes work, how the brain interprets what the eyes see and the nature of light itself. Paperback, 87 pages.

Reading Level: Intermediate
N756117—\$9.95

**ACRYLIC PAINT 18 PACK
(NON-TOXIC)**

Water-soluble, dries quickly. Comes in 1/2 fl. oz. container. Use on paper, wood, and plastic. Color is permanent when dry, water cleanup. Colors include: avocado, medium blue, gold, sandalwood, parrot green, shocking pink, flesh, brown, black, purple, brick red, orange, white, lilac, vanilla, yellow, blue, and red.

N753375—\$9.95
10 for \$89.60
N753469 Paint Brush Assortment
(144 craft brushes, sizes 1 - 6)—\$11.95

**MICROSCOPES AND
MAGNIFYING LENSES**

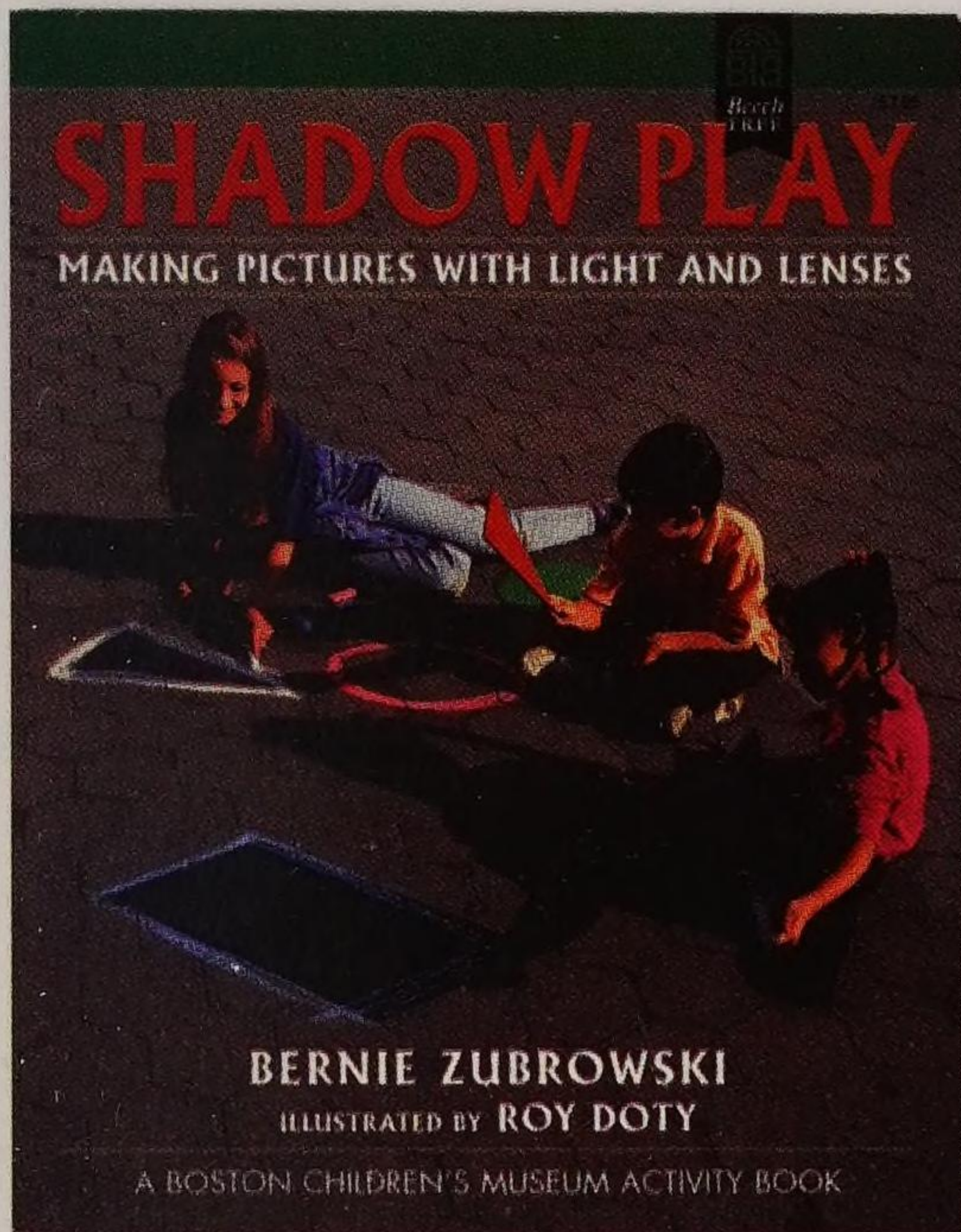
Janice VanCleave

Check out this fantastic book from the prolific science author Janice VanCleave.

It is loaded with easy-to-do hands-on experiments aimed at answering the most asked questions about science. Paperback, 100 pages.

Reading Level: Intermediate – Middle School
N715807—\$10.95

Fax Orders Free
1-888-534-6784

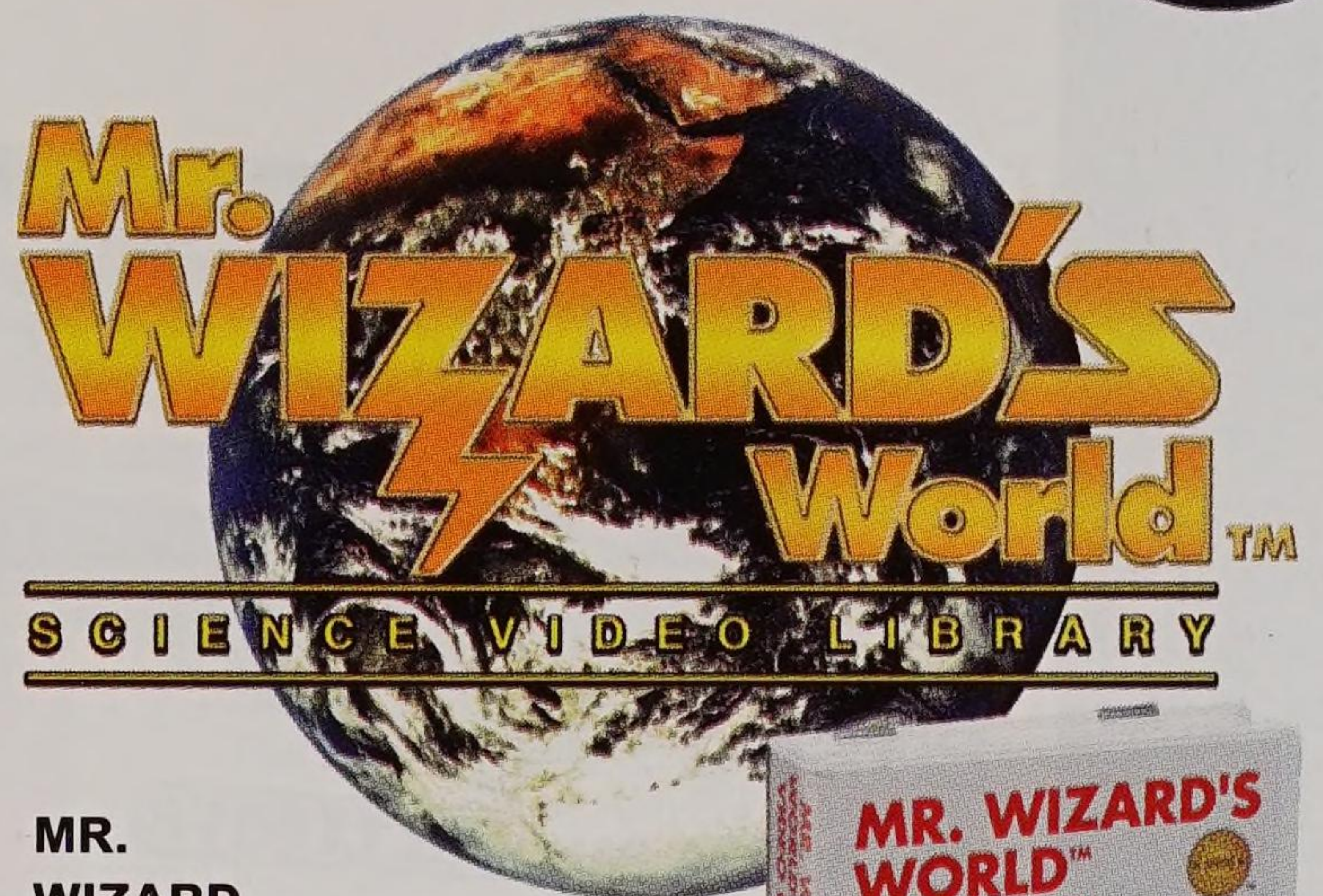


New!

SHADOW PLAY

Shadow Play will help students explore shadows and discover how shadows led to the invention of the camera. In over 50 amazing experiments, students will learn about shadows and build their own shadow boxes. Paperback, 112 pages. Reading Level: Intermediate

N756129—\$7.95



MR. WIZARD VIDEOS

Learn fascinating science facts from the original TV scientist—Mr. Wizard! With the help of student assistants, Mr. Wizard cooks up amazing experiments in his laboratory, demonstrating basic scientific principles. Viewing Level: Intermediate - Middle School.

LIGHT REFRACTION

25 minutes.

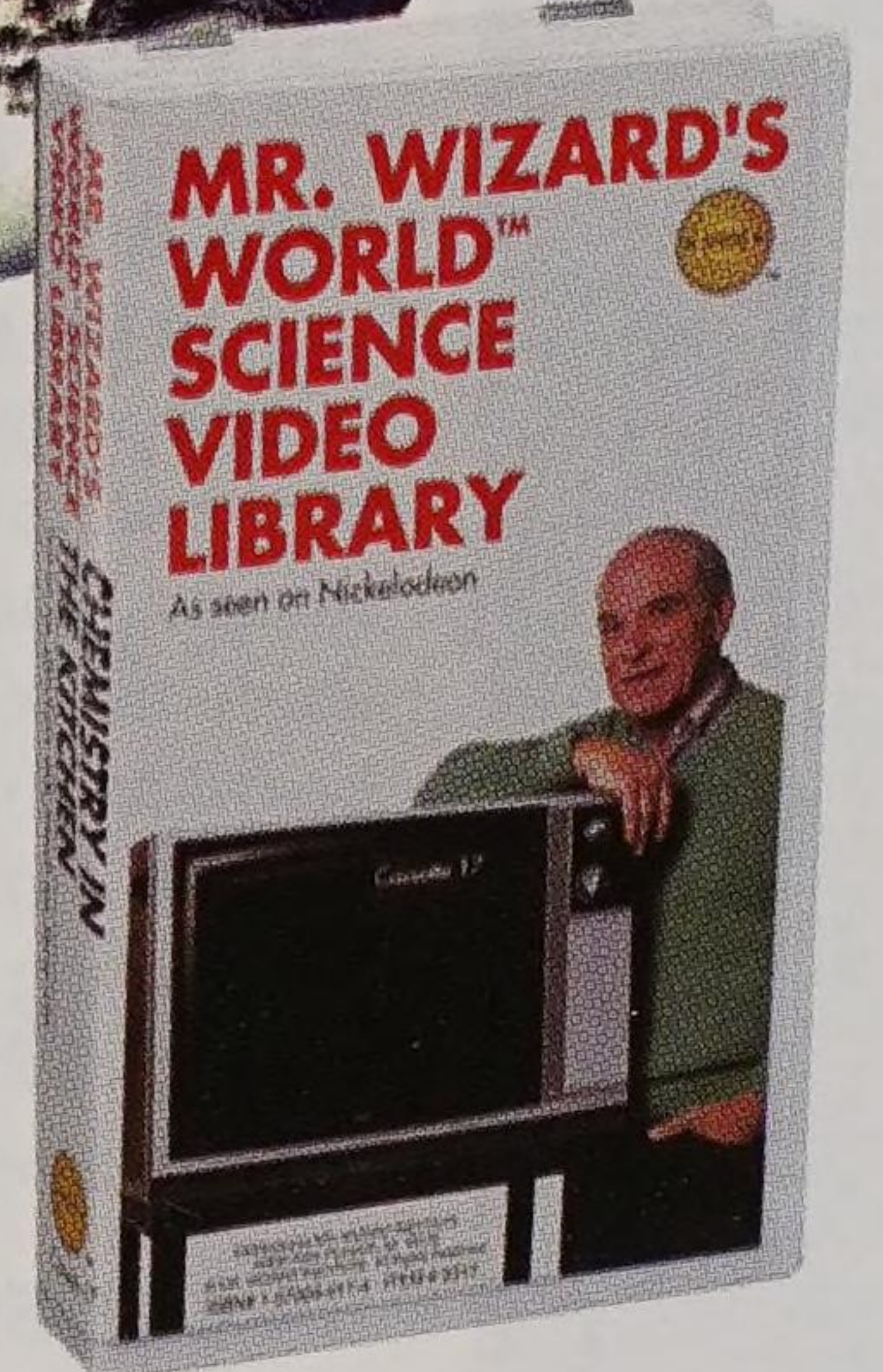
N715891—\$49.50

LIGHT INSTRUMENTS

•Holograms

20 minutes.

N715892—\$49.50



EXPLORABOOK

John Cassidy

This is a hands-on science museum designed for kids. Full of activities and exhibits, it is meant to be experienced. The activities include magnetism, light wave craziness, illusions, biology, ouchless physics, and more. It is a tool. Please treat it that way. Paperback, 99 pages.

Reading Level: Intermediate - Middle School

N753102—\$18.95

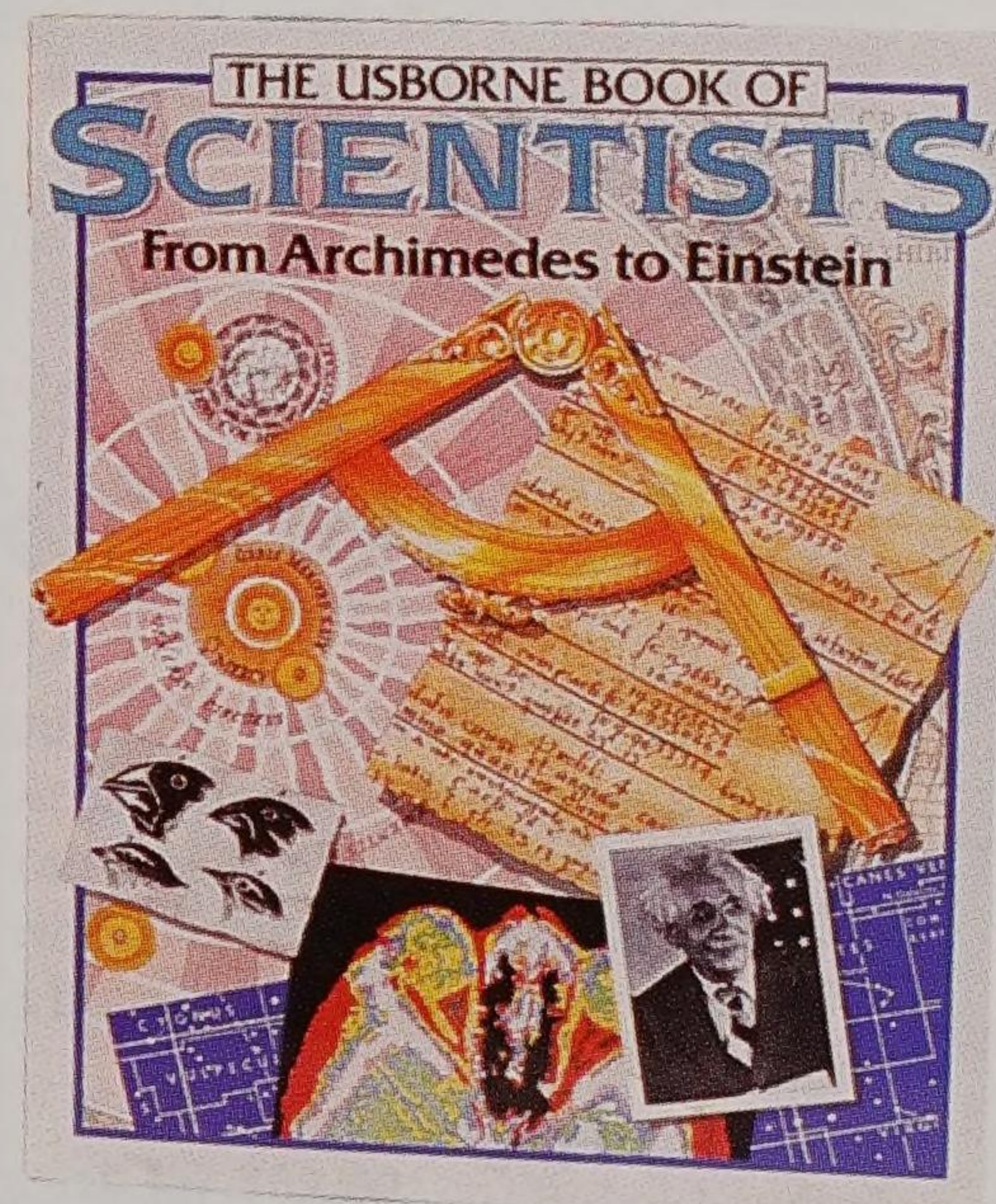
SCIENTISTS FROM ARCHIMEDES TO EINSTEIN

Struan Reid and Patricia Fara

This Usborne Book about scientists looks at the men and women whose research and discoveries have changed the world, tracing the history of scientific ideas from ancient civilizations to the present. As well as discussing the lives and careers of the most famous scientists, it looks at lesser known figures, including some long neglected women scientists. Paperback, 48 pages.

Reading Level: Intermediate - Middle School.

N752264—\$7.95



Call Us Toll Free
1-800-362-4308

PITSCO **LEGO** **dacta**
PARTNERS IN INNOVATIVE EDUCATION

A young child, a fresh uncluttered mind, a world before him—to what treasures will you lead him?
Gladys M. Hunt



PITSCO
INNOVATIVE EDUCATION

DA CAMERA PAK **EXCLUSIVE**

In the spirit of Leonardo da Vinci, students learn the basics of optics by using the camera obscura principle. Students construct simple cameras that mimic the way the human eye sees images. The cameras are then used to take pictures which the students develop. Cameras are constructed from black poster board and use 3-1/2" x 5" print paper. Da Camera Pak includes camera construction materials, print paper, darkroom safelight, developing containers, trays, funnels — everything needed for the activity.

N990012—\$160

DA CAMERA EXPENDABLES PAK

Contains construction materials, developing chemicals, print paper and all other consumable items.

N990013—\$99



DESIGNS IN SCIENCE - USING LIGHT

Sally Morgan and Adrian Morgan

"Using Light" focuses on the physical principle of light, its effects on all living organisms, and its use by cameras and the human eye.

Hardback, 48 pages.

Reading Level: Intermediate - Middle School

N752308—\$14.95



FILM

Richard Platt

The fascinating history of filmmaking comes alive through this book of photographic essays. This book takes the student behind the scene to explore how a set is built, how stunts are performed, how special effects are achieved, how films are edited, and how movies are made.

Hardback, 64 pages.

Reading Level: Intermediate - Middle School

N752220—\$19

PHOTOGRAPHY BOOK

Moira Butterfield and Susan Peach

Packed with tips on the best way to take all kinds of photographs. There is also advice on how to avoid common mistakes and how to cope with difficult lighting conditions.

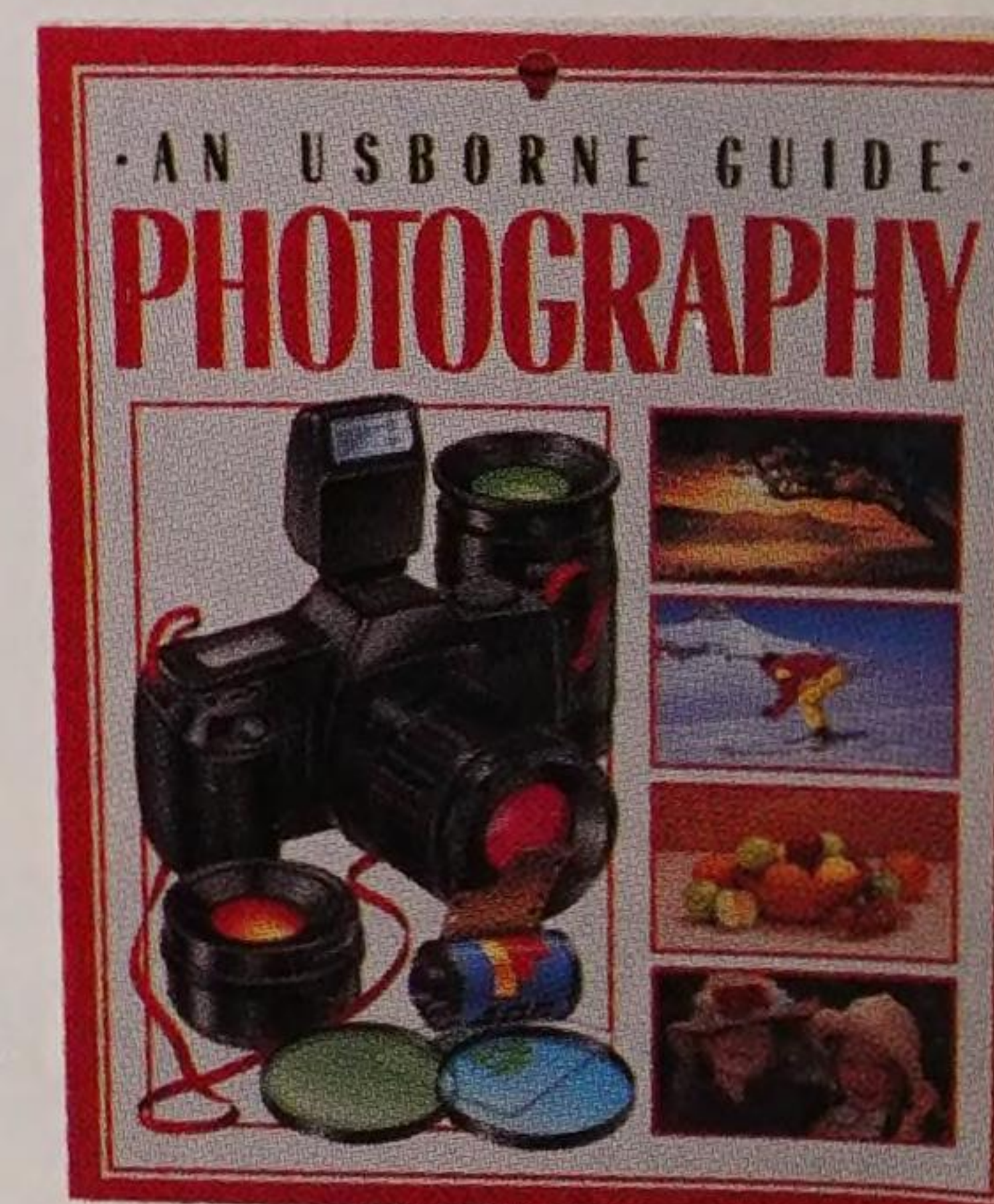
There are lots of examples of photos you can try, some of them using exciting special effects. Includes information on camera operation and print developing, and mounting for display.

Paperback, 48 pages.

Reading Level: Middle School - High School

N751597—\$6.95

10 for \$62.60



Fax Orders Free
1-888-534-6784

PITSCO
INNOVATIVE EDUCATION

LASER LIGHT SHOW SET

Dancing, swirling, pulsating laser light will captivate your students! Your students have probably seen a laser light show at concerts before, but now they can learn about lasers, basic circuitry and soldering skills by building and experimenting with the Pitsco Laser Light Show.

By varying the speed and direction of 2 adjustable motorized mirrors, students can use a laser to project intricate

patterns on the included viewing board or wall. The size of the projection can be changed by positioning the kit farther from the screen or wall. Longer distances (which means bigger images) can be obtained by using more powerful classroom type lasers.

The kit includes everything needed—motors, round mirrors, circuit board, wiring, control switches, hook and loop fastener, even batteries and an AC adapter. The light show can be purchased with a laser or without so you can use your existing classroom laser, or a laser pointer.

N754149 Laser Light Show Set

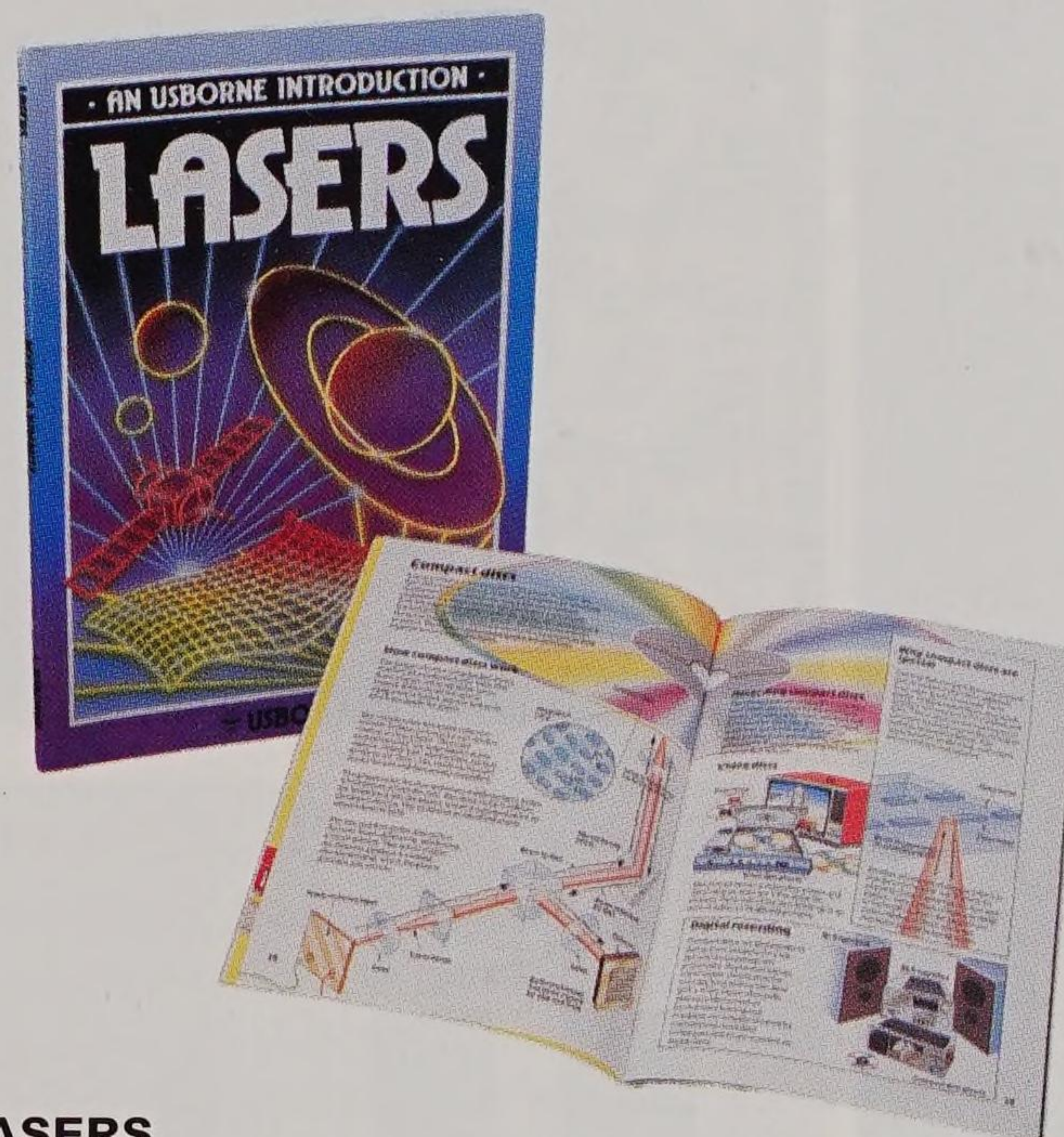
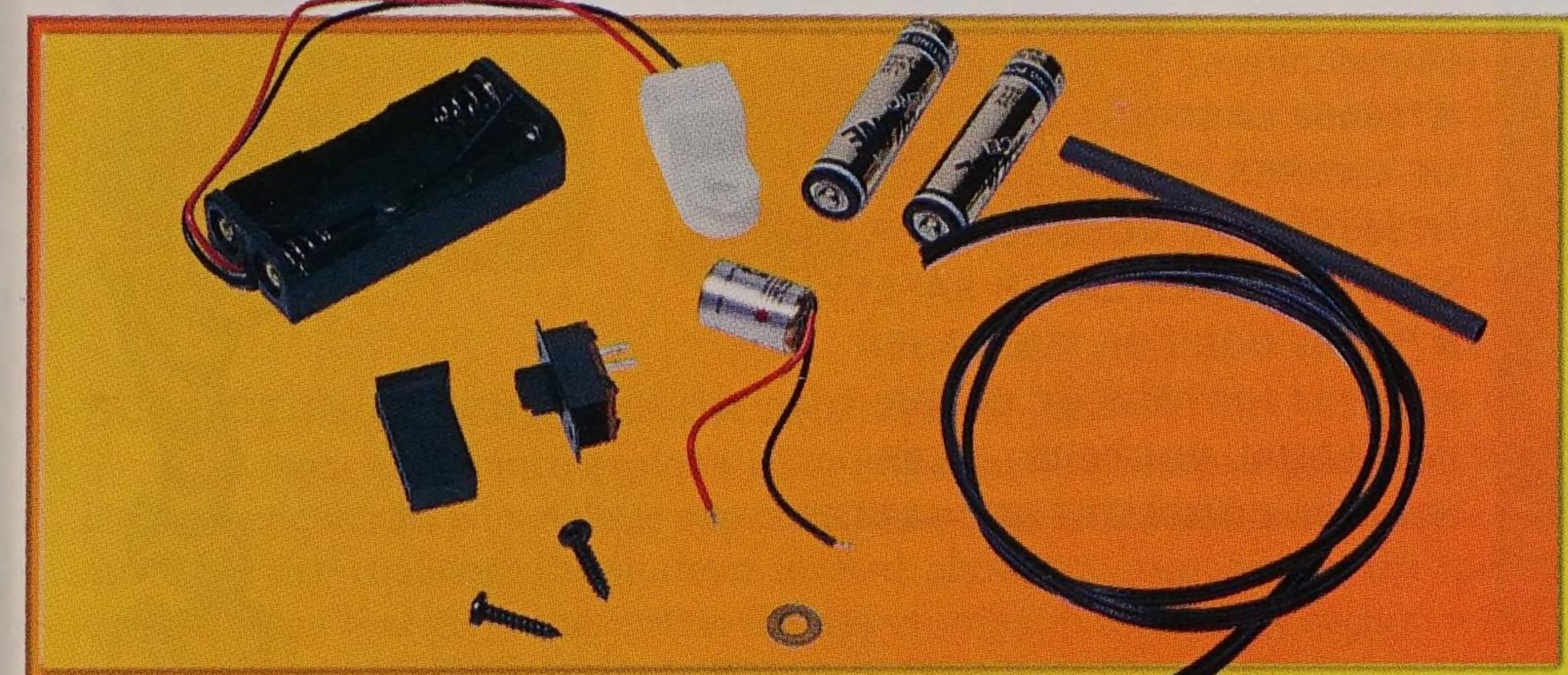
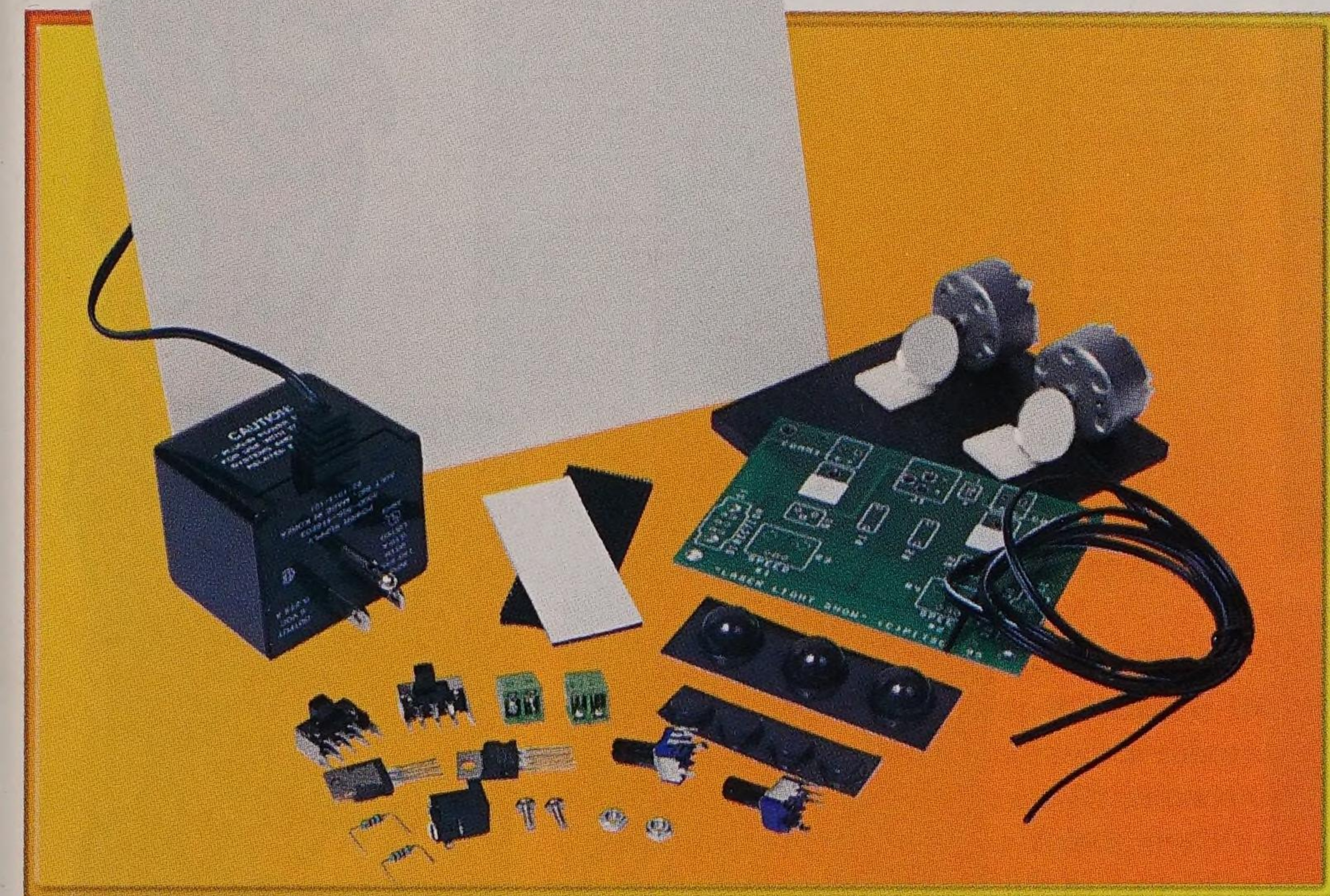
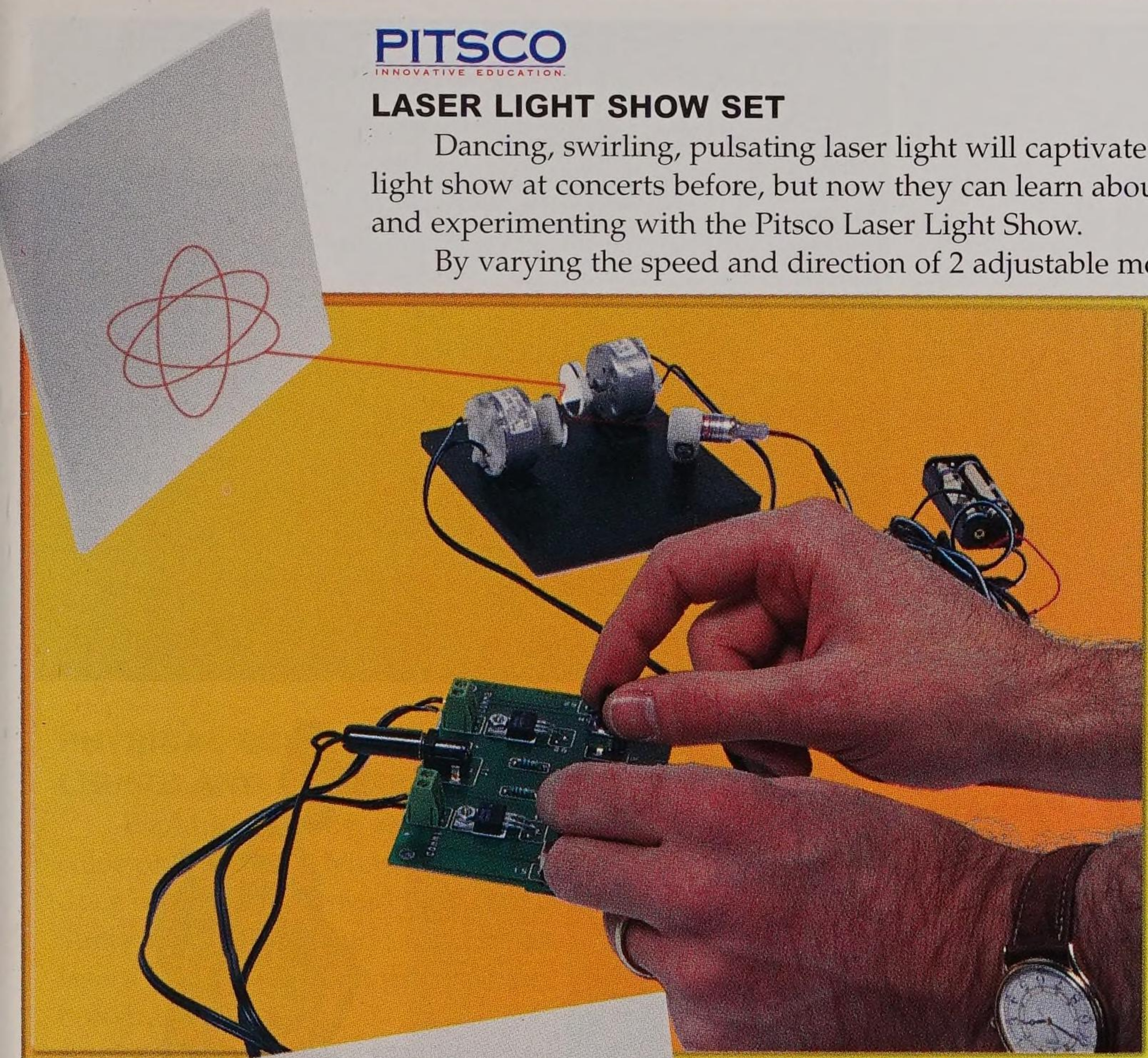
(with 4 mW laser)—\$145

N715695 Laser Light Kit

(without laser)—\$75

N715694 Laser Diode Module

(4 mW output)—\$95



LASERS

Lynn Myring and Maurice Kimmitt

An excellent Usborne introductory reference on one of the most fascinating, versatile facets of the new technology. Lasers now cut metal, cure diseases, project 3D images, transmit information, store data, play hi-fi music, and are an integral part of many weapons' systems.

This book explores these ideas and others in clear language and color illustrations.

Paperback, 48 pages.

Reading Level: Middle School - High School

N750954—\$6.95

10 for \$62.60

Call Us Toll Free
1-800-362-4308

PITSCO **LEGO** **dacta**
PARTNERS IN INNOVATIVE EDUCATION

The great difficulty in education is to get experience out of ideas.
George Santayana

History Of The Laser

1916
Stimulated emission proposed by Albert Einstein

1940
Population inversion proposed by V.A. Fabrikant

1947
Dennis Gabor develops holography

1954
First maser is developed by J.P. Gordon, H.J. Zeiger, and Charles H. Townes

1957
Gordon Gould describes an idea for a gas discharge laser and was the first to use the acronym laser. He records ideas in his notebook and has it notarized, but does not apply for a patent until 1959

1958
Townes develops idea for laser and patents the idea

1960
Theodore H. Maiman develops the first laser using a ruby crystal (693nm)

1962
Diode laser (900nm)

1963
Nitrogen laser (337nm)

1964
Townes, Basov, and Prokharov receive the Nobel Prize for physics and the carbon dioxide laser is invented (10.6um)

1970
Molecular hydrogen laser (10um)

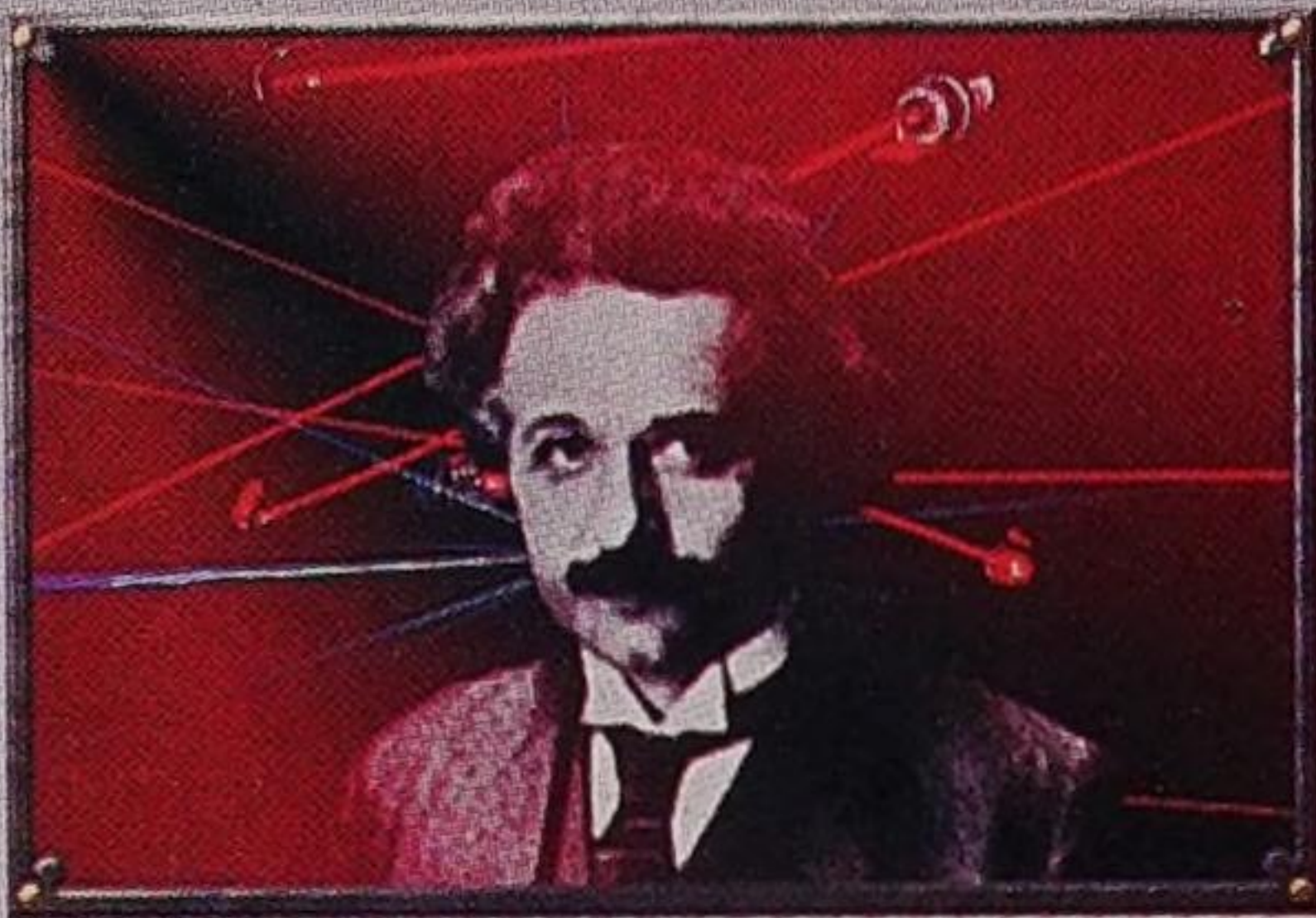
1971
Dennis Gabor receives the Nobel Prize in physics for holography

1981
Dr. Arthur Schawlow receives a Nobel Prize in physics for laser spectroscopy

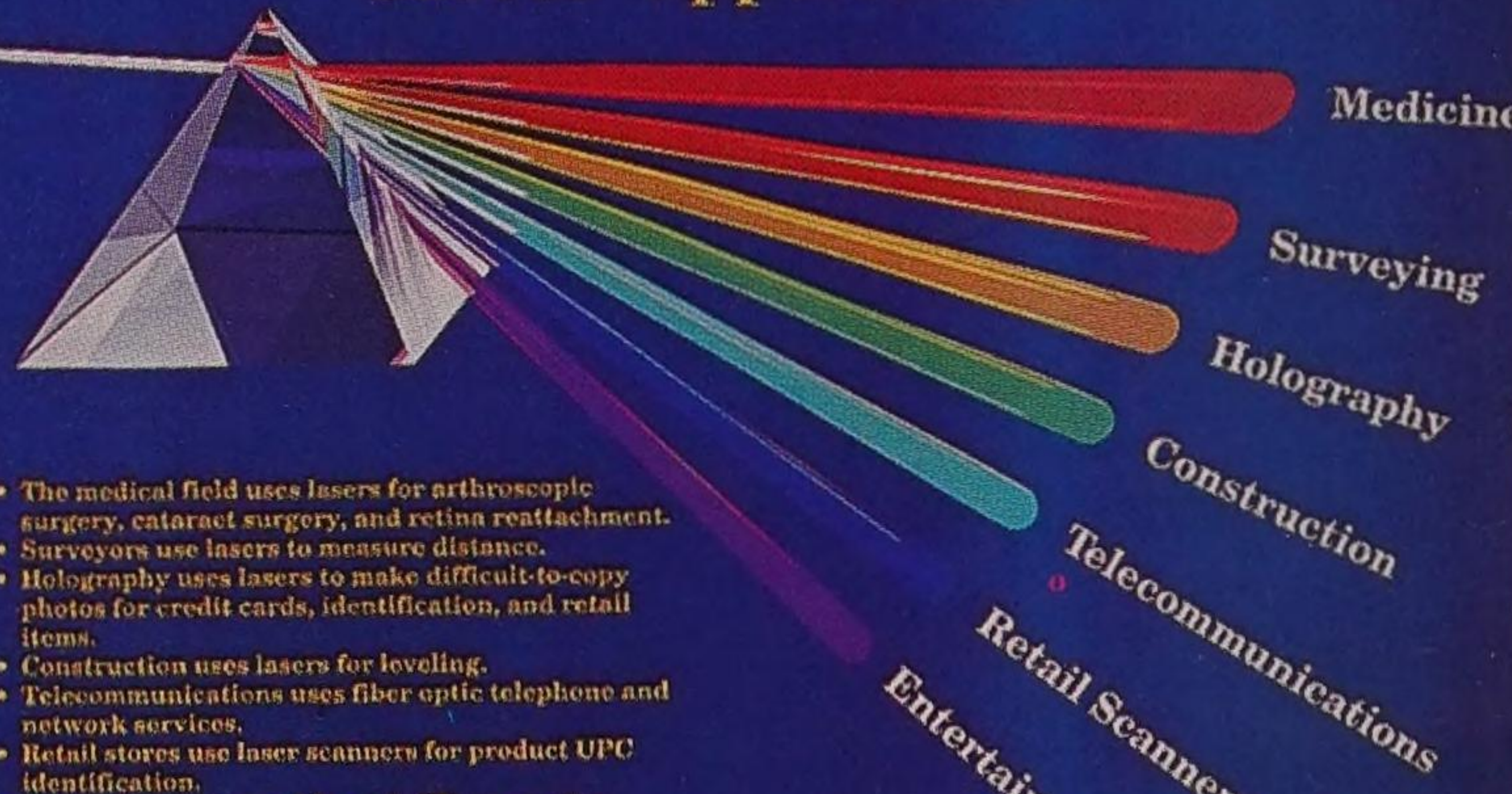
1984
The X-ray laser is invented and the Altiman Holography Method is developed by Thomas C. Altiman, a physics instructor at Oswego J.S. in NY

1987
Gordon Gould wins patent for a gas discharge laser

1988
Laser atomic traps are invented. They are used to manipulate and study small organisms



LASERS A Spectrum Of Career Opportunities

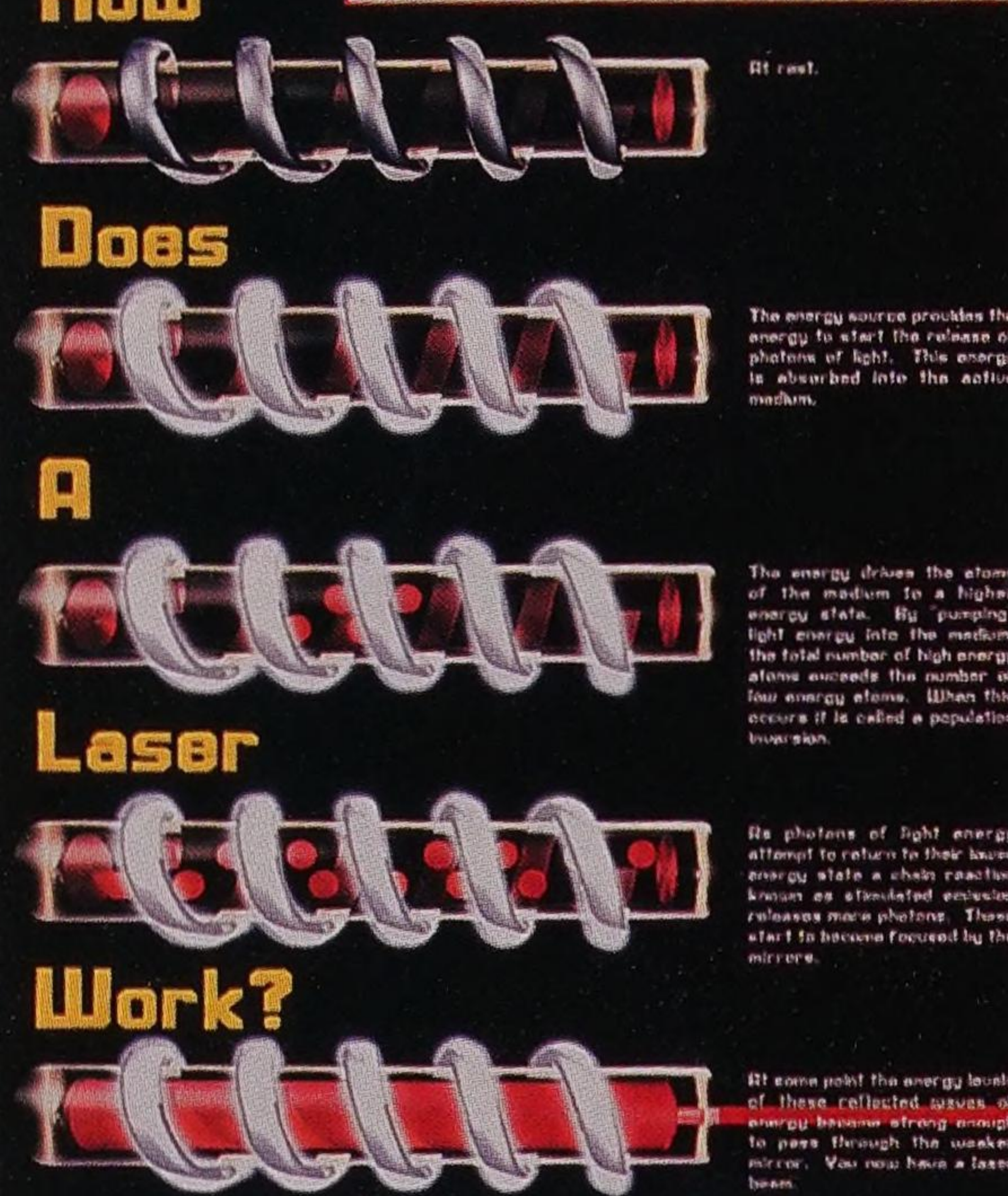


- Medicine
- Surveying
- Holography
- Construction
- Telecommunications
- Retail Scanners
- Entertainment

- The medical field uses lasers for arthroscopic surgery, cataract surgery, and retina reattachment.
- Surveyors use lasers to measure distance.
- Holography uses lasers to make difficult-to-copy photos for credit cards, identification, and retail items.
- Construction uses lasers for leveling.
- Telecommunications uses fiber optic telephone and network services.
- Retail stores use laser scanners for product UPC identification.
- Lasers entertain us with music CDs, computer CD-ROMs, video laser discs, and laser light shows.

How Does A Laser Work?

The principle of operation for all lasers is essentially the same. Lasers must have three main parts: a power source, an amplifying medium, and a feedback mechanism.



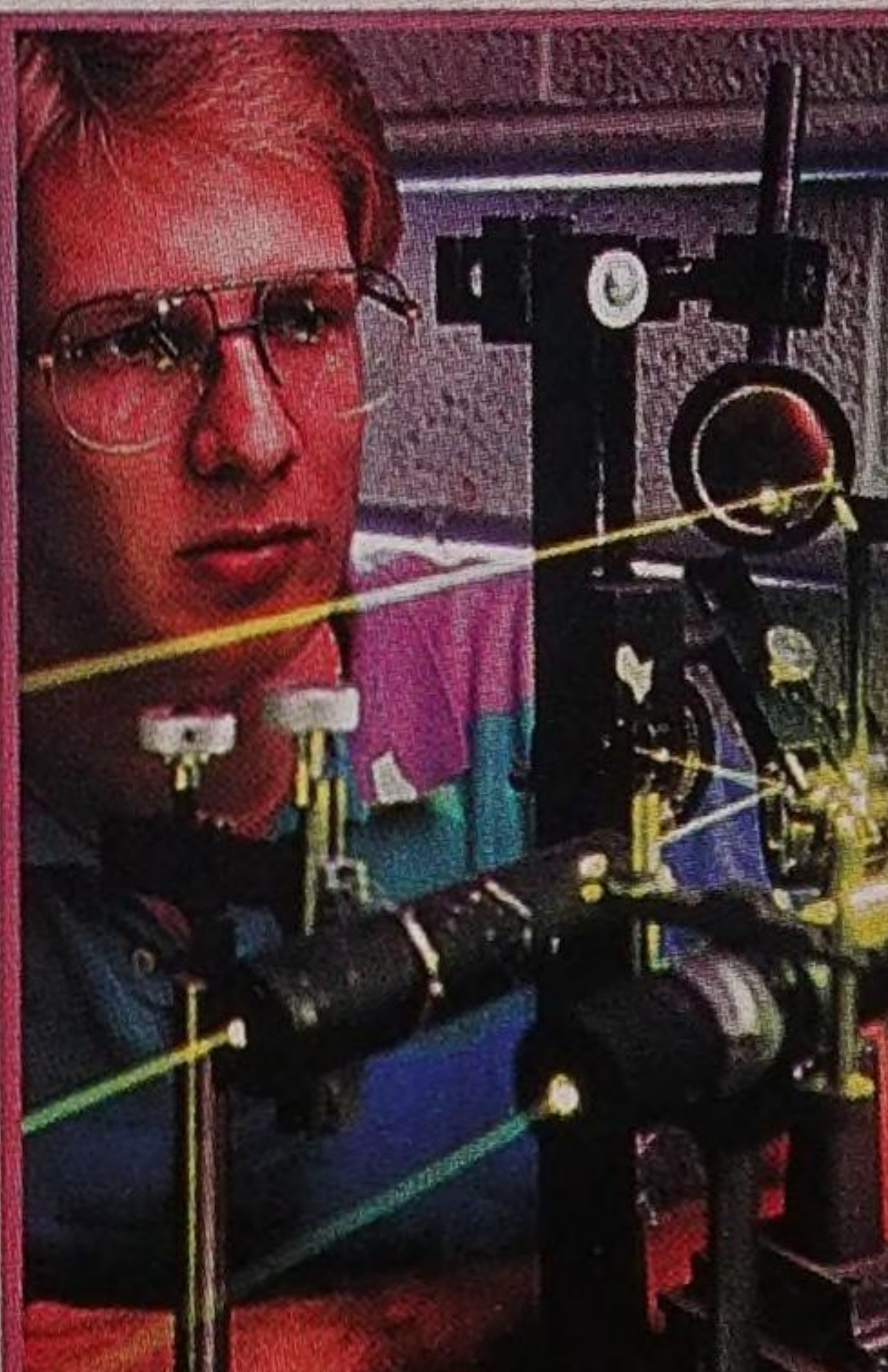
USES OF THE LASER ARE ALL AROUND US

CLOTHING INDUSTRY
Clothing stores are beginning to use a laser to scan your body to determine your exact size. You can then pick out a style and material and a computer uses another laser to cut out the material. When assembled you have an outfit that is a "perfect fit".

FUSION ENERGY
At the University of Rochester, NY basic lasers are focusing their energy on tiny glass balls filled with hydrogen isotopes. The heat and pressure causes the hydrogen to undergo fusion and release vast amounts of energy. The goal is to achieve a point where the energy released equals the energy required to power the lasers.

INTERFEROMETRY
This is a type of double exposure hologram that can reveal changes between two events. These submicroscopic differences are used to reveal defects in everything from auto tires to computer circuits destined for space satellites.

ENGRAVING
Everything from tombstones to fine jewelry are being engraved using lasers. A computer controls two moving mirrors that direct the laser up or down, and left or right. Even photographic images can be engraved using this process.



ADVERTISING
New "holographic" filters are allowing lasers to project pictures and words. These are being used by advertisers to promote products and have been used for creative unique decorations around the holiday season.

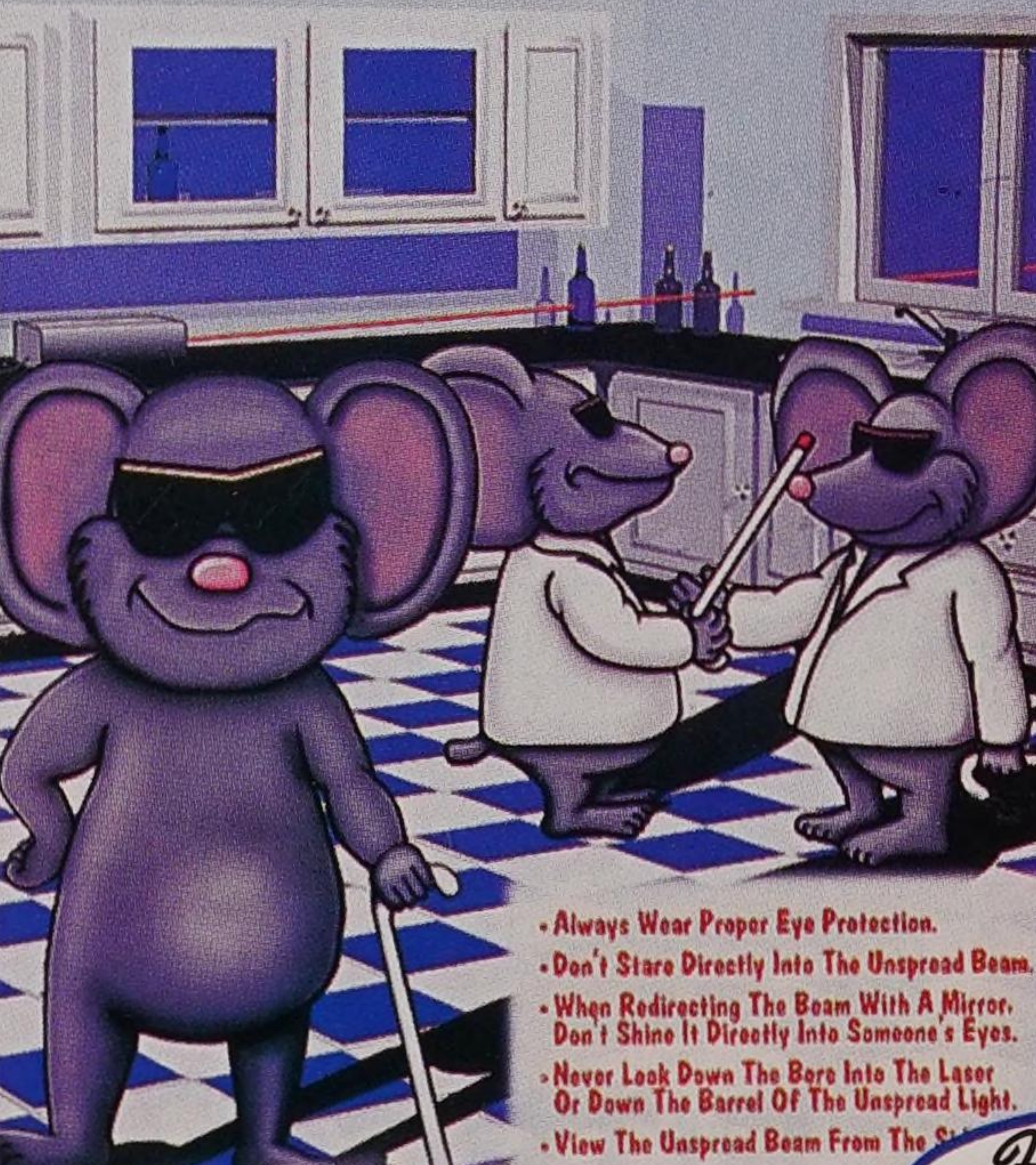
ATOMIC STRUCTURE
A strong UV laser is pointed into a stream of ions to see into the laser structure of the atom itself. When the energy from the laser interacts with the high-speed atoms some of the electrons are knocked into higher energy levels. By studying the energy of the electrons the model of the structure of the atom itself is being refined.

GUN SIGHTS
Visible laser diodes are mounted to guns and aligned for a specific range. When the trigger is pulled a bullet creates a hole where the laser dot was. Visible lasers for sighting weapons are preferred by the military so their targets are not aware they are being sighted.

RETAIL
Lasers are used in retail stores to scan the products you are purchasing. Scanners are also used to take inventory of the products on the shelf and to order products that are needed.

ENTERTAINMENT
Music CD's use a laser to bring you the crisp, clear music you listen to on the radio or your home CD player. You may have also visited a laser light show or put a CD-ROM into a computer to play a computer game.

DON'T RISK YOUR SIGHT, LEARN LASER SAFETY



- Always Wear Proper Eye Protection.
- Don't Stare Directly Into The Unspread Beam.
- When Redirecting The Beam With A Mirror, Don't Shine It Directly Into Someone's Eyes.
- Never Look Down The Barrel Into The Laser Or Down The Barrel Of The Unspread Light.
- View The Unspread Beam From The Side.

LASER POSTERS New!

Laser is quickly becoming a common word in today's classroom. Pitsco offers you five great posters: "Uses of the Laser Are All Around Us," "Don't Risk Your Sight-Learn Laser Safety," "History of the Laser," "How Does the Laser work?," and "Lasers a Spectrum of Career Opportunities." . Not laminated. Size: 17" x 22"

N756100 LASERS A SPECTRUM

OF CAREER OPPORTUNITIES

N756101 HOW DOES A LASER WORK

N756102 LEARN LASER SAFETY

N756103 USES OF THE LASER

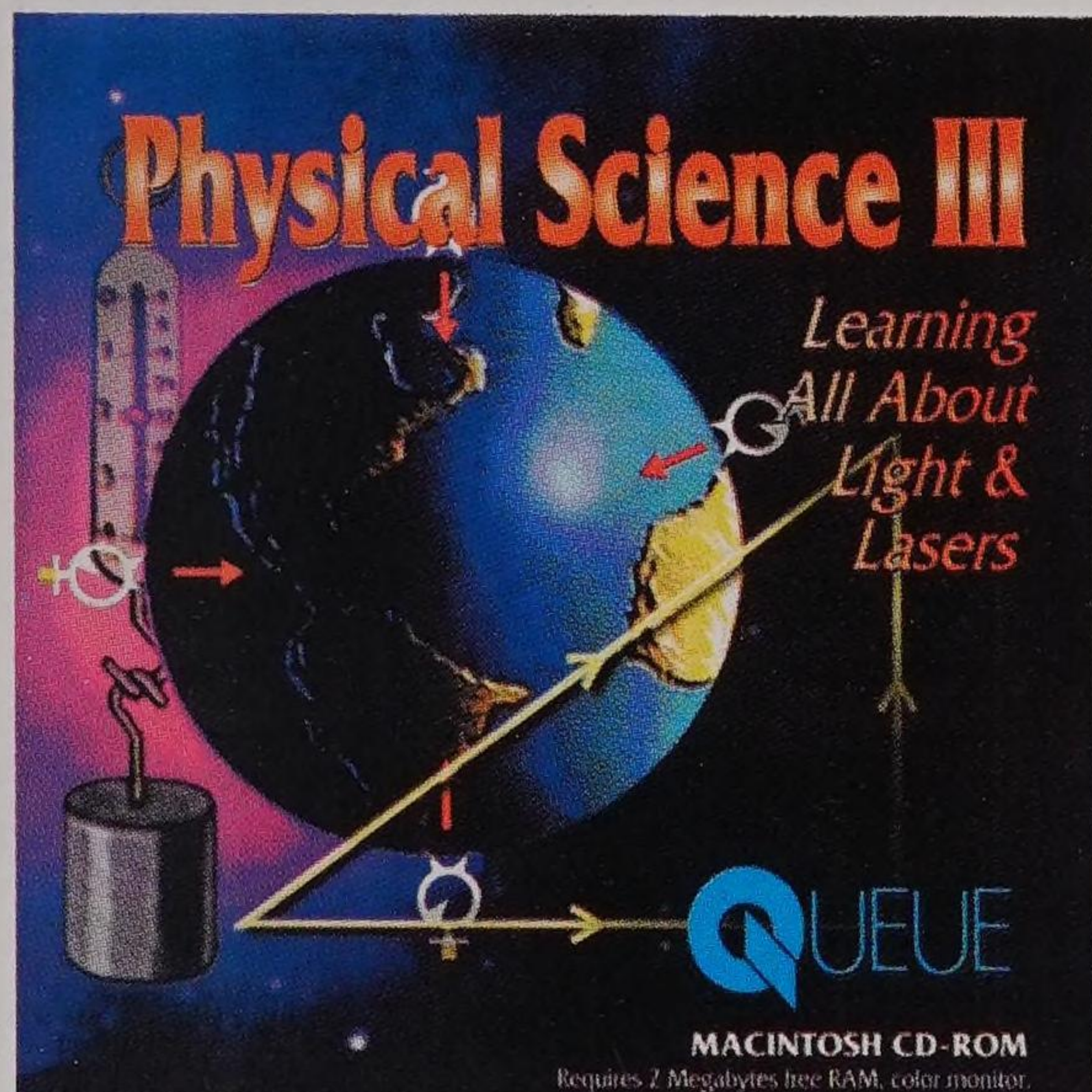
N756104 HISTORY OF LASER

INDIVIDUAL POSTERS—\$5.95

N756105 COMPLETE SET—\$24.95

Fax Orders Free
1-888-534-6784





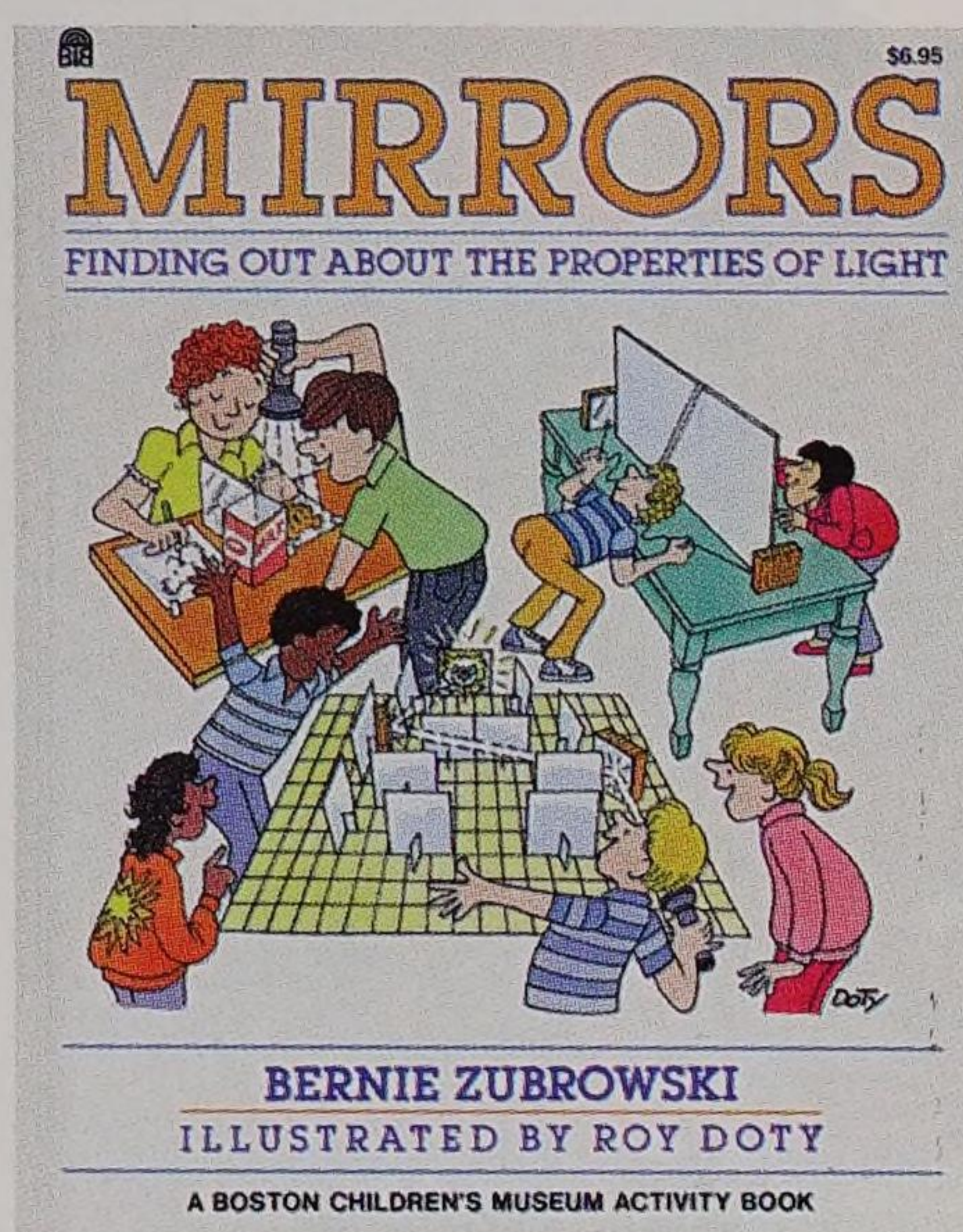
PHYSICAL SCIENCE III: LIGHTS AND LASERS



Explore and learn about the science of color photography, lenses, how electrons produce our light, polarized light and lasers. Subjects covered include what lasers are, how lasers work, how lasers are used and what holograms are.

N752574 Macintosh—\$75

N752676 DOS—\$75



MIRRORS

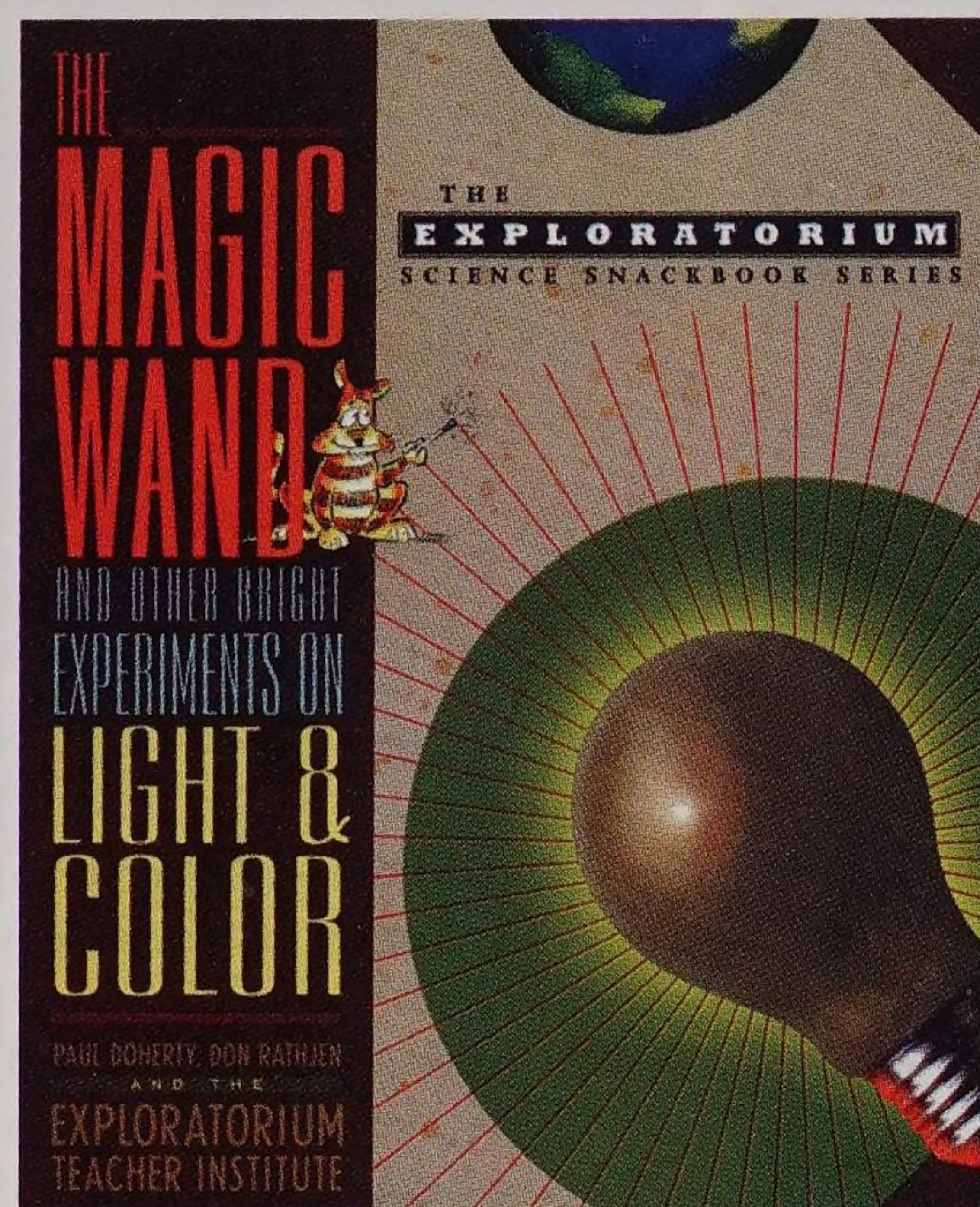
Bernie Zubrowski

New!

A wonderful new way to discover the properties of light - MIRRORS! This Boston Children's Museum activity book cleverly uses mirrors for making all kind of fun items. With just a few mirrors and some flashlights, students can make a copy machine, wonderful games, sculptures, and magical illusions. Bernie Zubrowski has designed more than fifty experiments, which are perfect for school science projects and for understanding light in the real world. Paperback, 96 pages.

Reading Level: Intermediate - Middle School

N756128—\$6.95



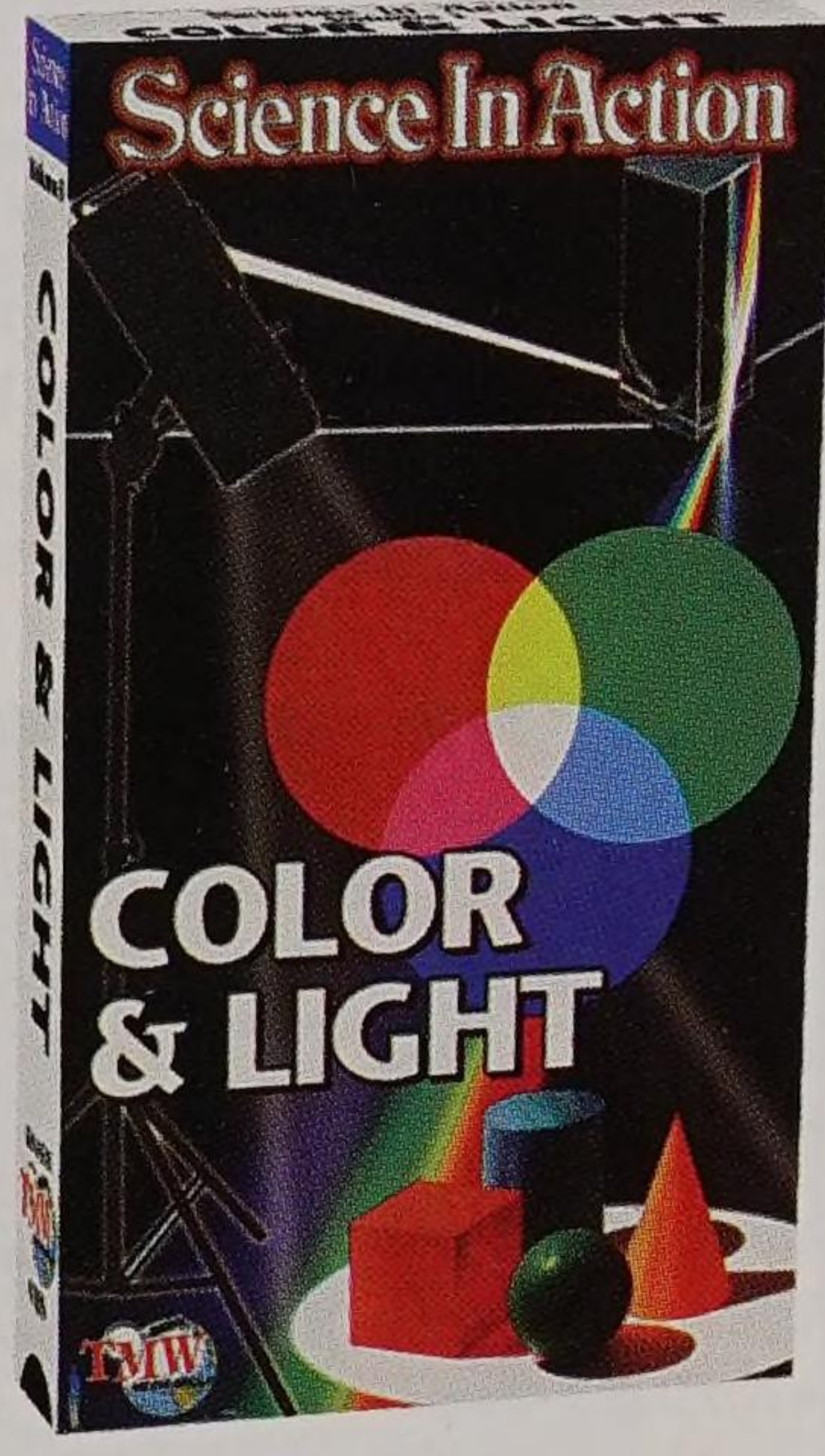
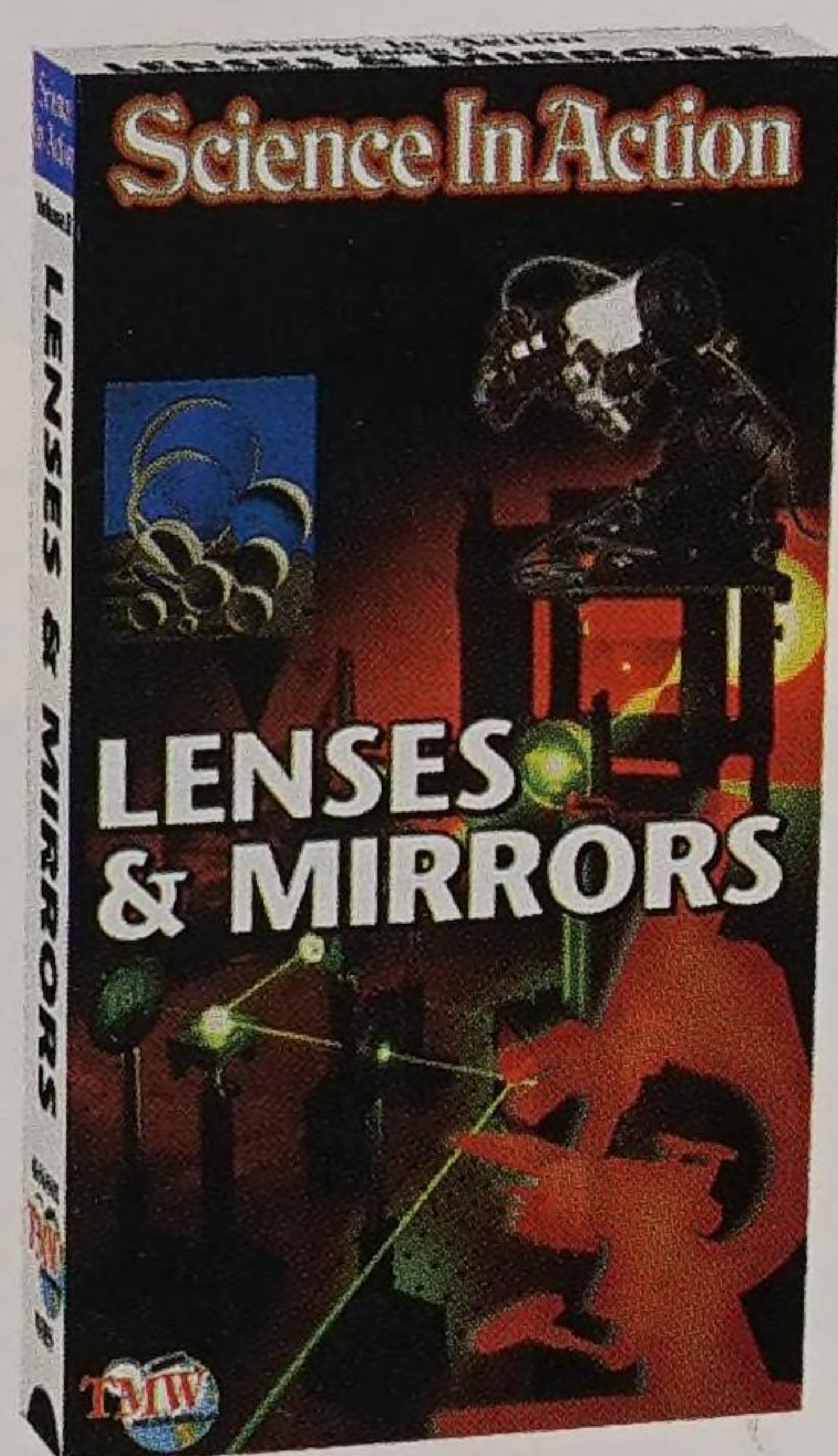
THE MAGIC WAND AND OTHER BRIGHT EXPERIMENTS OF LIGHT AND COLOR

New!

Why is the sky blue and the sunset red? With this book students can solve this mystery and many other mysteries of light and color. This book contains 25 "snack-sized" experiments with light and color based on exhibits at the San Francisco Exploratorium Museum. Paperback, 125 pages.

Reading Level: Middle School

N756069—\$10.95



SCIENCE IN ACTION: LENSES AND MIRRORS.

New!

In this video's three segments: Mirrors and Reflections, Lenses and Refraction, and Lenses and Mirrors in Action, students will learn how mirrors work, the different types of mirrors and lenses, and how mirrors and lenses are used. Between each segment questions are asked that challenge the students to respond to what has been taught. In addition, there is a short breakpoint between each segment that gives the teacher the opportunity to discuss the section with the students. Time: 18 minutes

Viewing Level: Middle School

N756123—\$19.95

SCIENCE IN ACTION: COLOR AND LIGHT

New!

This fascinating video explores color and light. In its three segments: "What is Color?", "Mixing Color", and "Artificial Light", students learn what color is, why objects appear a certain color, how colors are made, and the role of artificial light. Between each segment questions are asked that challenge the students to think about and respond to what has been taught. In addition, there is a short breakpoint between each segment that gives the teacher the opportunity to discuss the section with the students. Time: 18 minutes

Viewing Level: Middle School

N756124—\$19.95

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Children are
our most
valuable
natural
resource.
Herbet
Hoover



LEGO DUPLO HOME #779148 **New!**

107 elements

Home for sale. Prime features: open floor plan with movable walls, completely furnished! Includes eight family members, a vacuum, a dog, a cat, a baby swing and stroller, a tricycle, and a doorbell that really rings.

N779148—\$85



LEGO SYSTEM ROOF TILES #779265 **New!**

250 elements

This set includes roof tiles in five different shapes. Children can build roofs, pyramids, and much more.

N779265—\$26

HOW THINGS WORK IN BUSYTOWN

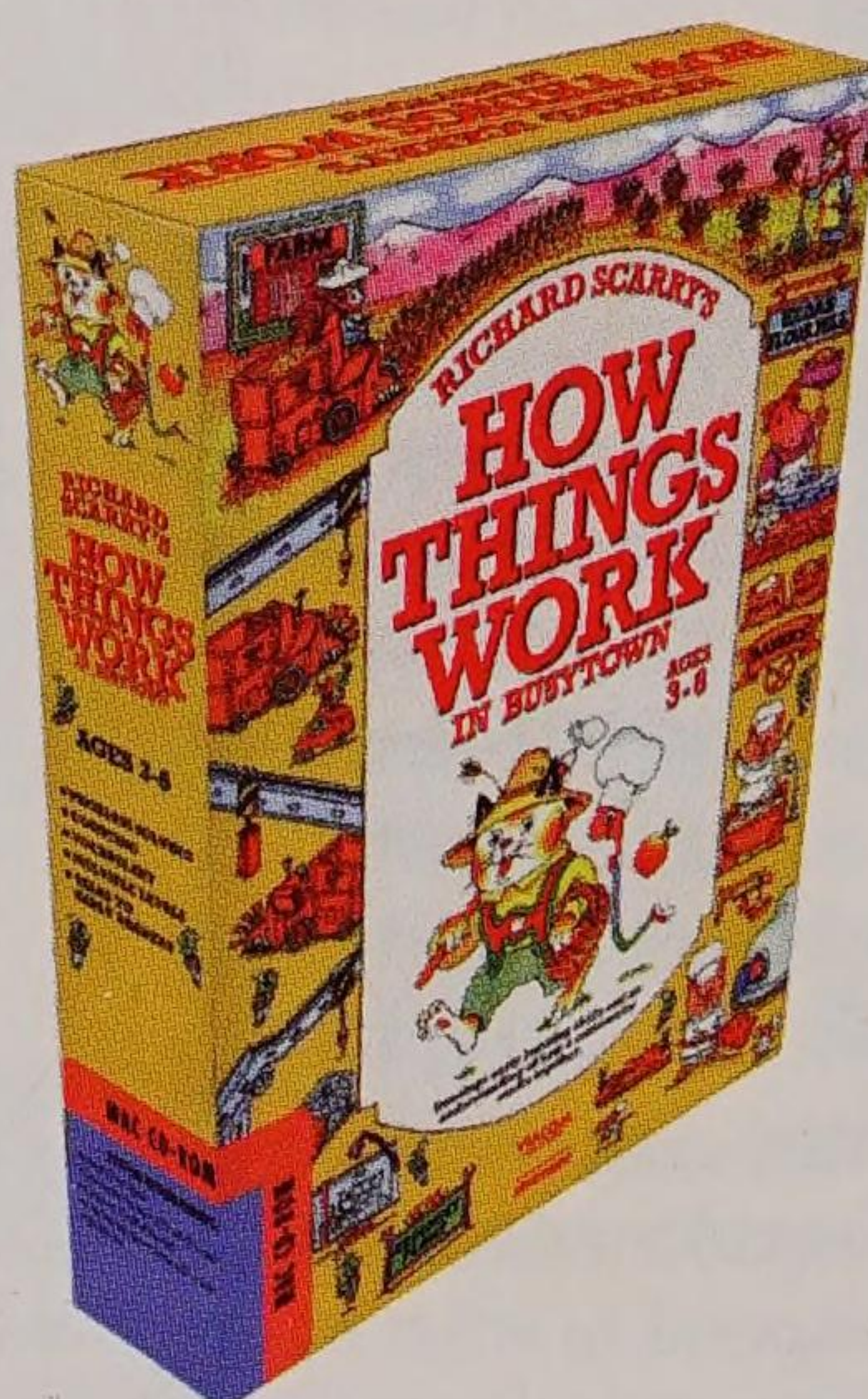


The popular storybook world of Richard Scarry comes to life in this interactive learning CD-ROM! With Huckle Cat, Lowly Worm and other characters, children learn the importance of working together in a community while gaining valuable early learning skills.

They'll participate in a wide range of activities such as building a tractor, harvesting wheat, grinding it into flour and helping Able Baker make bread. Children learn: colors and counting, problem solving, word recognition and vocabulary, and community roles.

Primary.

**N755054 Mac/Win Hybrid
CD-ROM—\$39.99**



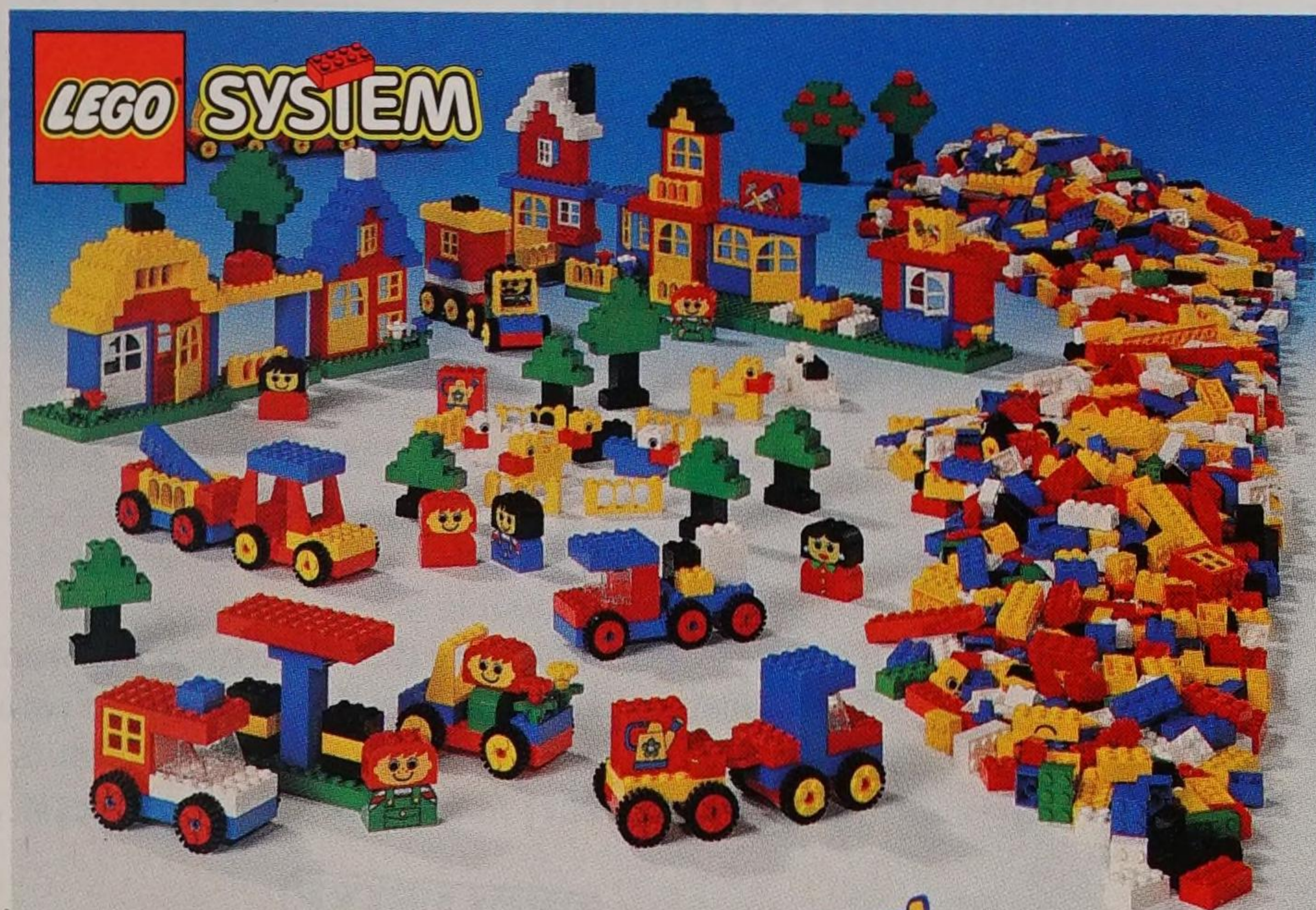
LEGO SYSTEM DOORS AND WINDOWS #779274 **New!**

260 elements

With additional doors, windows, and shutters in your LEGO collection, every child can give that house the perfect finishing touches. Possible to make 70 windows and 30 doors.

N779274—\$26

Fax Orders Free
1-888-534-6784

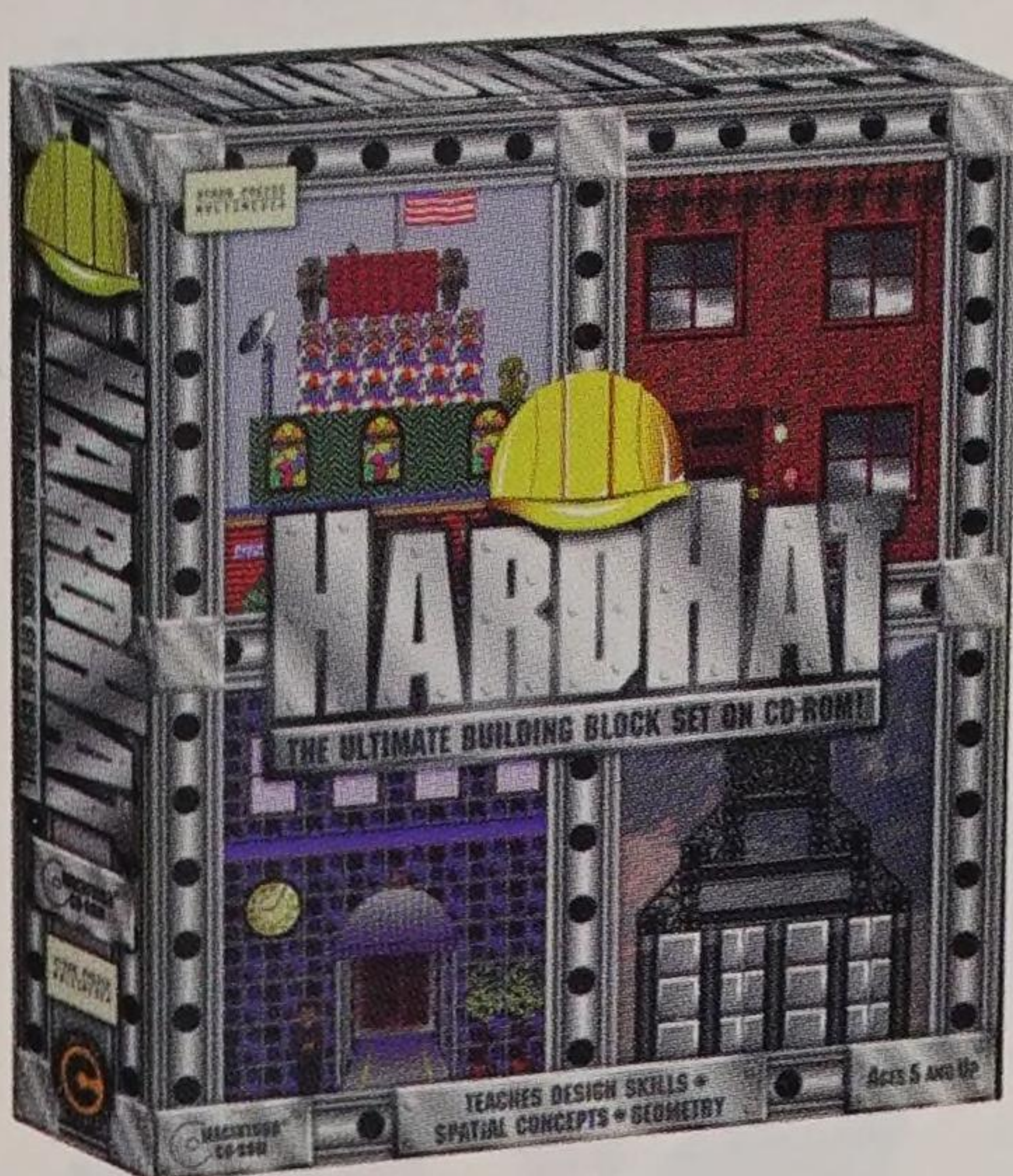


BONUS LEGO BASIC TOWN #779248 **New!**

1,737 elements

Build a whole new community every day with houses and vehicles your students design. This bonus set includes lots of LEGO bricks plus wheels, figures, doors, windows, trees, and decorated bricks. Ages 3 and up.

N779248—\$98



CD ROM **New!**

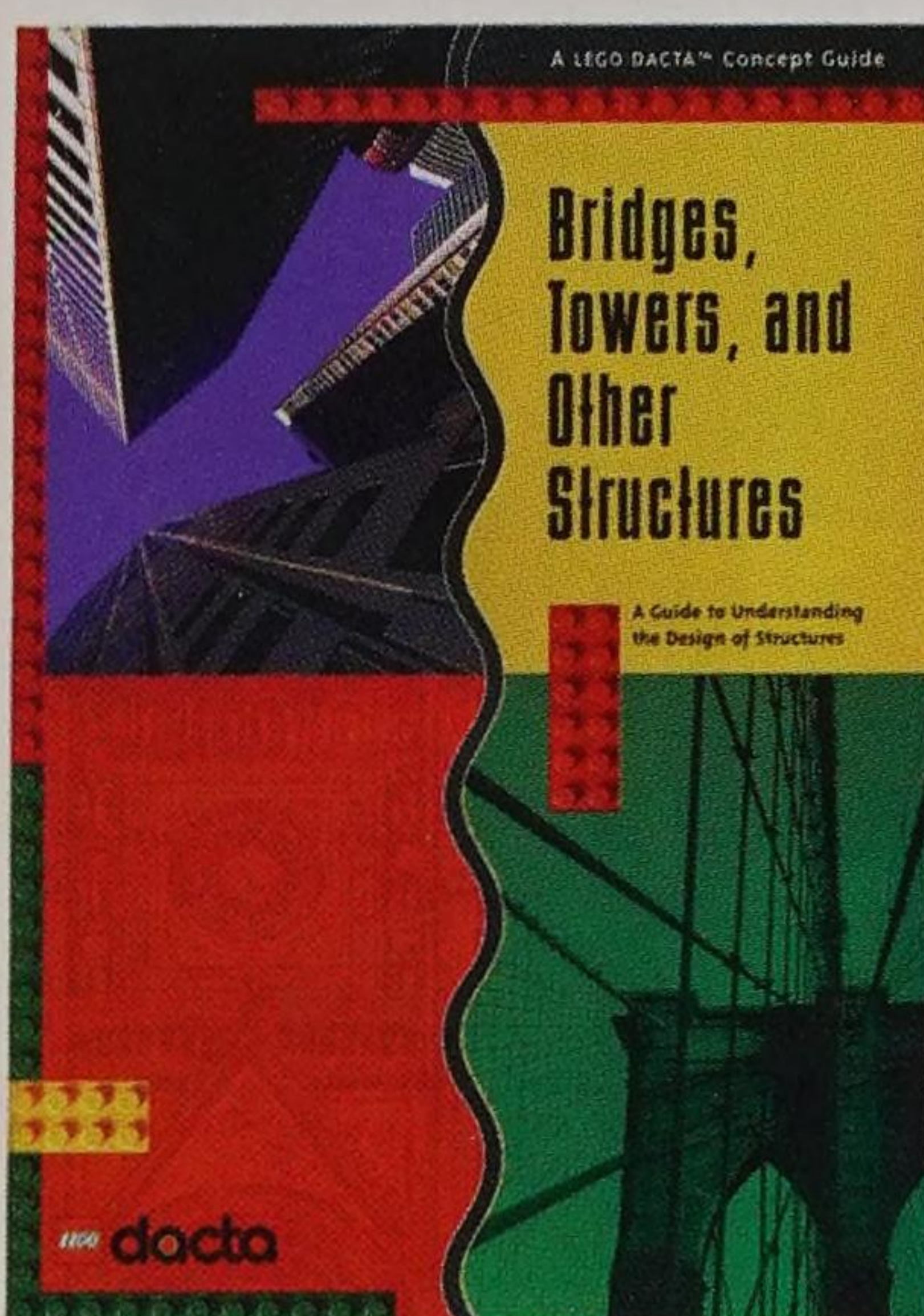
HARDHAT CD-ROM

Kids punch in on the time clock and get to work creating their own skyscraper, castle, or anything else they dream up! With more than 100 building materials—from brick to plaid and elements ranging from doors to flags to neon signs, kids can create and animate fantastic structures.

When they're finished building, kids can save, print, or demolish their building with a

wrecking ball, dynamite, earthquake, or even an alien spaceship. Hardhat is easy for kids to use and introduces them to the playful side of the working world. Ages 5 and up.

N756049 Macintosh CD-ROM—\$29.95



New!

STRUCTURES CONCEPT GUIDE #200039

This excellent 23-page guide is a great way to introduce students to the basic concepts of structural design. It takes a fascinating look at bridges, towers, skyscrapers, dams, ancient buildings and even structural elements of nature. Use with the Primary Towers and Bridges Set #779660 shown above. Paperback. Reading Level: Middle School - High School

N200039—\$15



PRIMARY TOWERS & BRIDGES SET #779660

107 DUPLO elements

Students learn basic structures concepts with hands-on exploration! Concepts include balance within structures, ways of building structures and stability. By building a variety of models children can determine what is the best shape for the job. It's ideal for developing design and problem-solving skills. Storage case not included.

- Designed for use by teams of 2-3 children
- Teacher notes with support for 16 activities
- 12 investigation cards for 12 models
- 2 problem-solving cards
- Inventory card

N779660—\$71



"FREE PLAY" DUPLO SET #779081 (LIMITED QUANTITY)

206 DUPLO elements

Little hands will find plenty of ways to put together all of these colorful DUPLO blocks! Designed to be used in learning centers with enough elements for 4 children to build with concurrently. This assortment of preschool blocks includes: 12 figures, 6 wagons, 5 farm animals, 2 building plates and much more.

N779081—\$84.75

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1-800-362-4308

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**STRUCTURES SET #979618**

461 elements

EXCLUSIVE

This great set expands upon the experiences of the Primary Towers & Bridges Set and provides a more in-depth exploration of structures. Students will discover many structures concepts including stability within bridges and towers, forces on structures and strength of materials.

They discover these concepts by designing and building structures from various materials like corrugated plastic sheets, studded string and wooden sticks. Since the materials are low cost, the models can be destructively tested. Includes:

- Instructions for 20 models
- Force meter—a clever device that students build from LEGO elements. It measures the force placed on a structure.

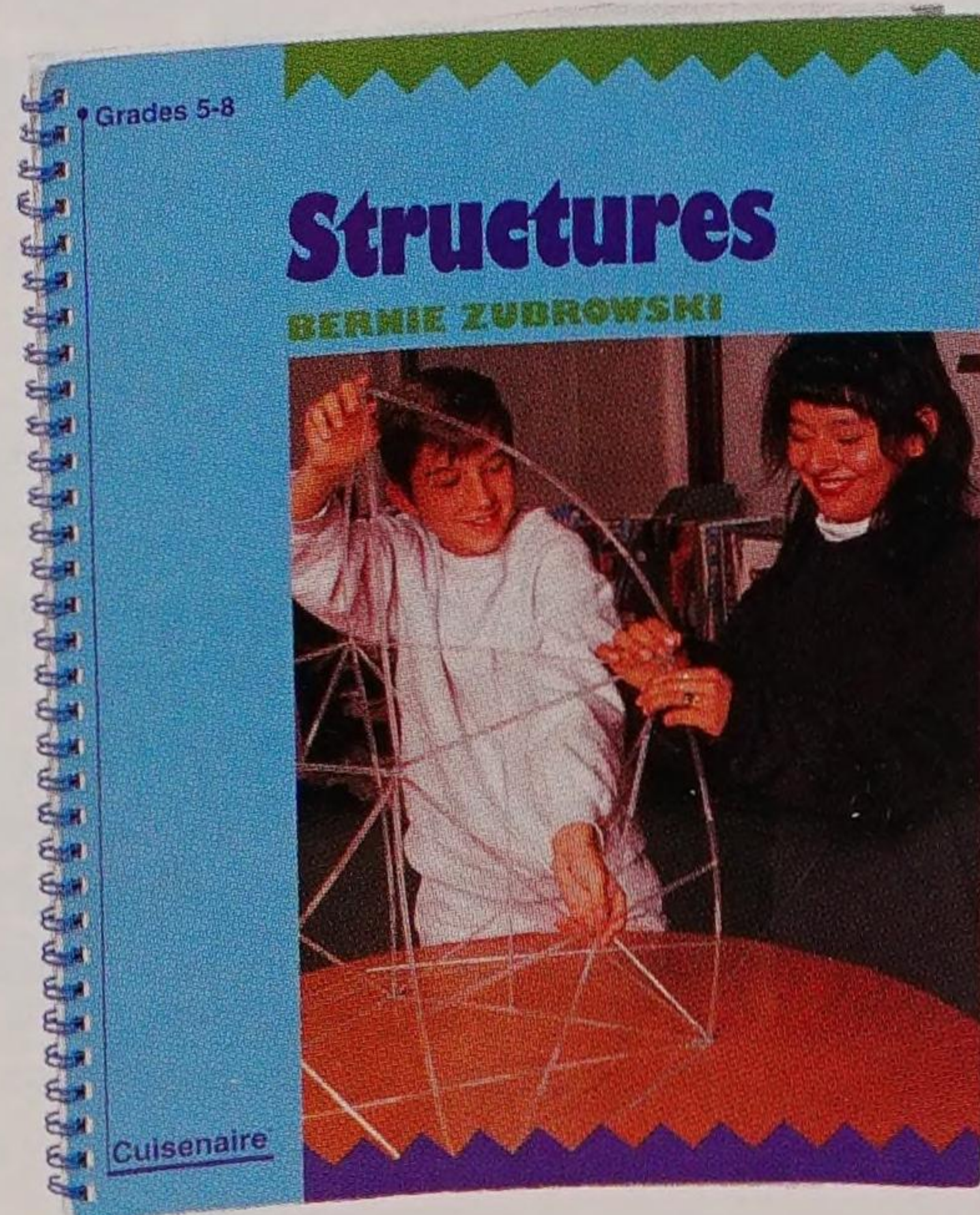
N979618—\$72**STRUCTURES ACTIVITY PACK #909618****EXCLUSIVE**

The Activity Pack contains all the information needed by teachers to orchestrate a successful unit with the Structures Set. There are 13 copymaster worksheets with teacher notes, background information, templates, and one copy of the Structures Concept Guide.

The materials are designed for classroom activities—from exploring and investigating structures concepts to their application in problem-solving activities.

N909618—\$25**STRUCTURES CONCEPT GUIDE**

This excellent guide is also available separately.

N200039—\$15**STRUCTURES**

Bernie Zubrowski

Activities in *Structures* present opportunities for learning fundamental scientific concepts and skills. Students use straws for the three basic projects of building model houses, bridges, and towers. They must isolate the essential members of a structure and analyze how these members interact with one another.

Paperback, 64 pages.

Reading Level: Intermediate - Middle School

N752191—\$10.50

Fax Orders Free
1-888-534-6784

Kids in this catalog
are larger than
they appear.

Anything one
man can
imagine,
other men
can make
real.
Jules Verne

A

A. ART STRAWS FOR STRUCTURES

Unwaxed paper straws are 16" in length. Use for bridge and tower building and architectural models. Straws make lightweight but strong and durable geometric shapes.

N752843 Art Straws, 4mm (1800 qty)—\$29

B

B. PIPE CLEANERS

One of the innovative folks here at Pitsco thought of a new way to attach straws together for structures - pipe cleaners. Try it, you'll like it. Pkg of 100, colors may vary.

754853—\$3

BUILDING SKYSCRAPERS

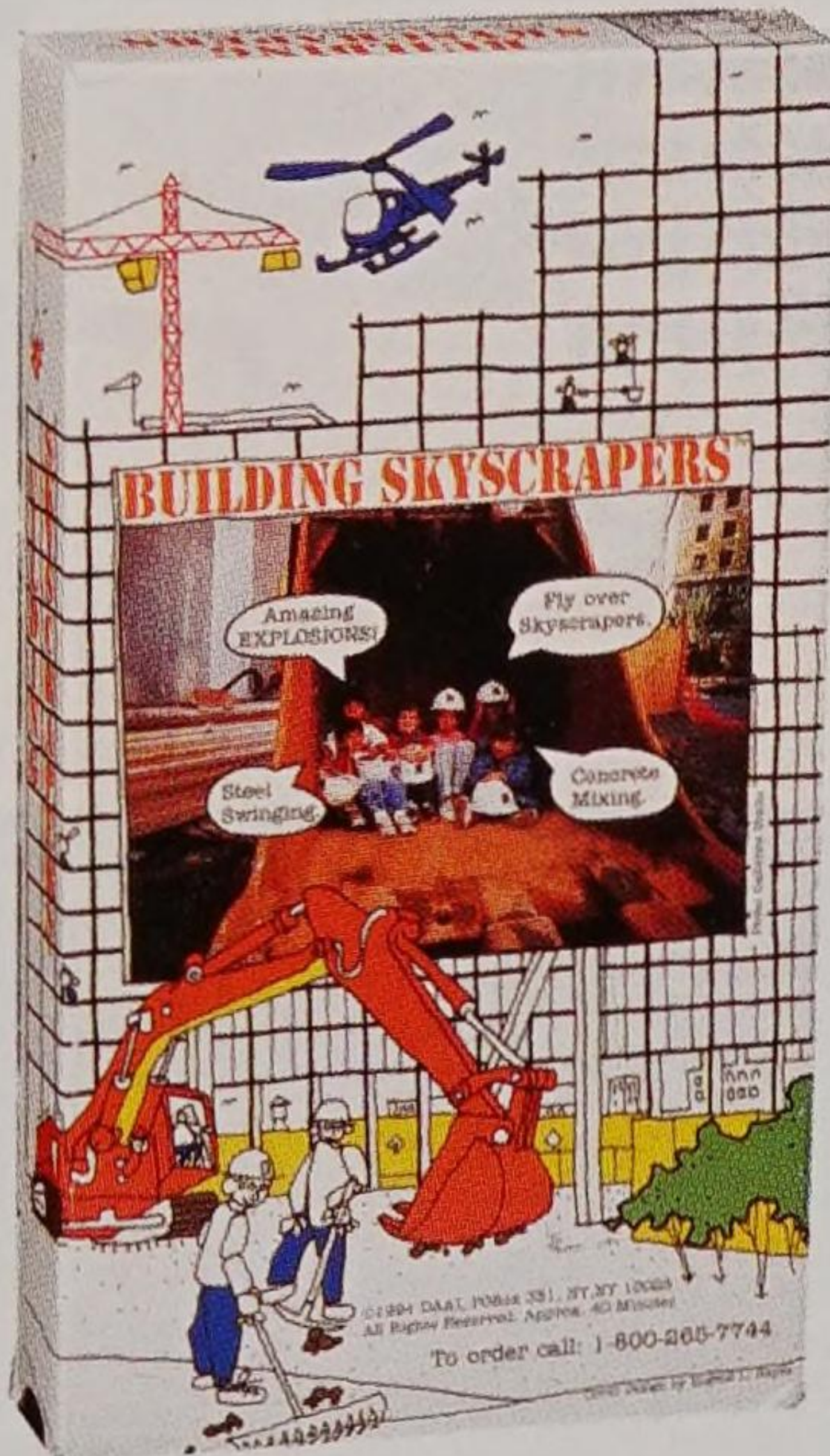
This video shows kids the fascinating nuts and bolts of how skyscrapers are made. Its kid-friendly, "How do they do that?" format is designed to inspire creativity.

Students will be thrilled with exciting footage of amazing explosions, swinging steel, mixing concrete, and skyscraper fly-overs. Kids will appreciate what it takes to create skyscrapers—true wonders of the modern world.

Time: 40 minutes.

Viewing Level: Intermediate - Middle School

N753020—\$19.95



CRAZY ACTION CONTRAPTIONS

New!

A LEGO inventions book! With this zany project book and 60-piece set, kids are certain to have a blast inventing, tinkering and watching in amazement as their contraptions jump into action.

Using the Lego Technic elements, they'll assemble 5 wacky and fun devices that really work—the Never-Look-Back-Machine, Coat Hanger Daredevil, Skittle Tops, 9-Foot Rubber Band Racer, Balloon-Powered Rocket Car. With a few additional LEGO elements, they can assemble 5 more contraptions. The kid-friendly book has 64 full-color pages. Ages 7 and up.

N756183—\$19.95

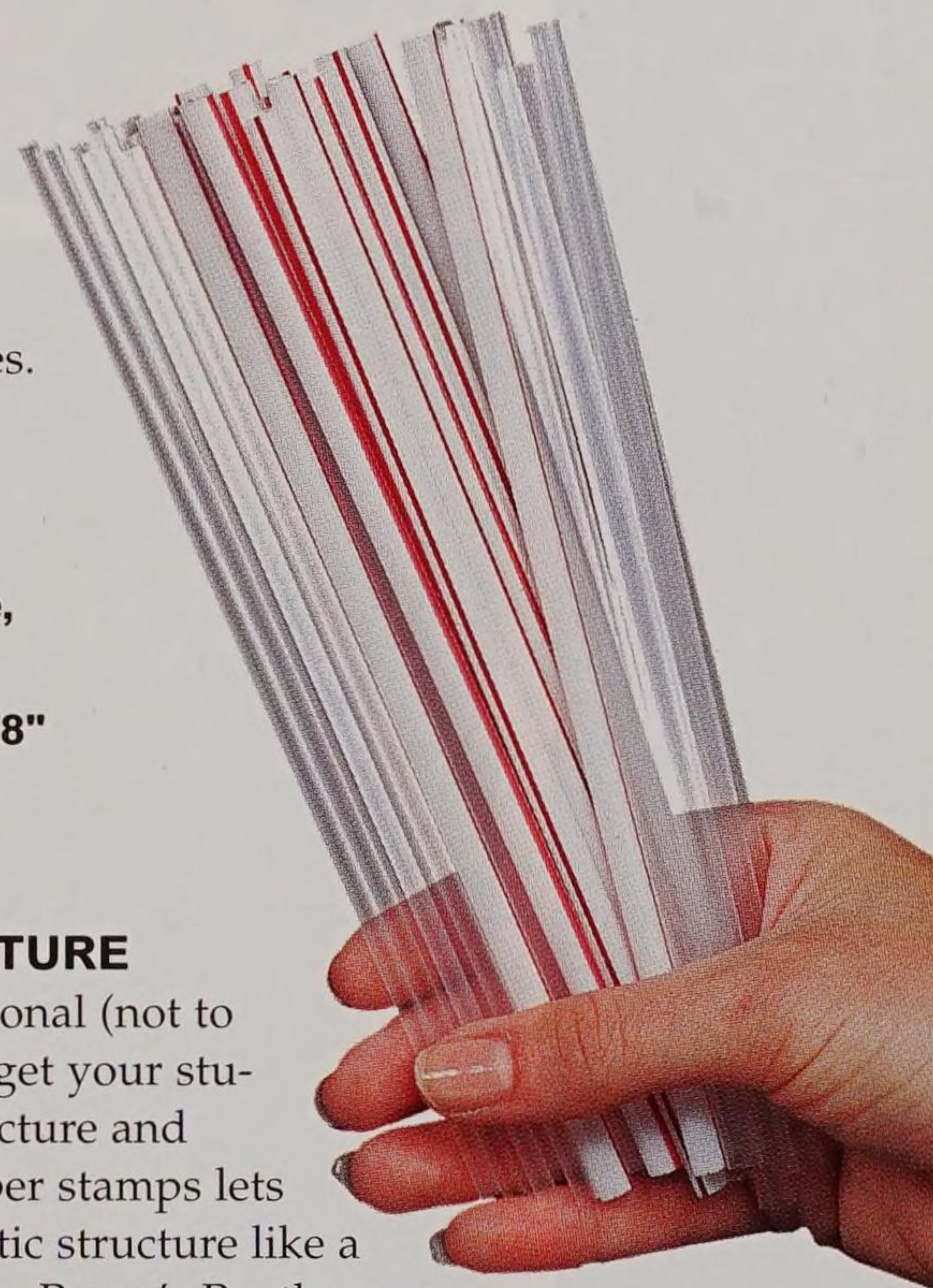
PLASTIC STRAWS FOR STRUCTURES

Use for bridge and structure building activities. 7-3/4" in length.

N715909 Clear, 1/4" dia. (250 qty)—\$3

N715910 white/red stripe, 1/4" dia. (250 qty)—\$3

N753334 Plastic straw 1/8" (500 qty)—\$3.50

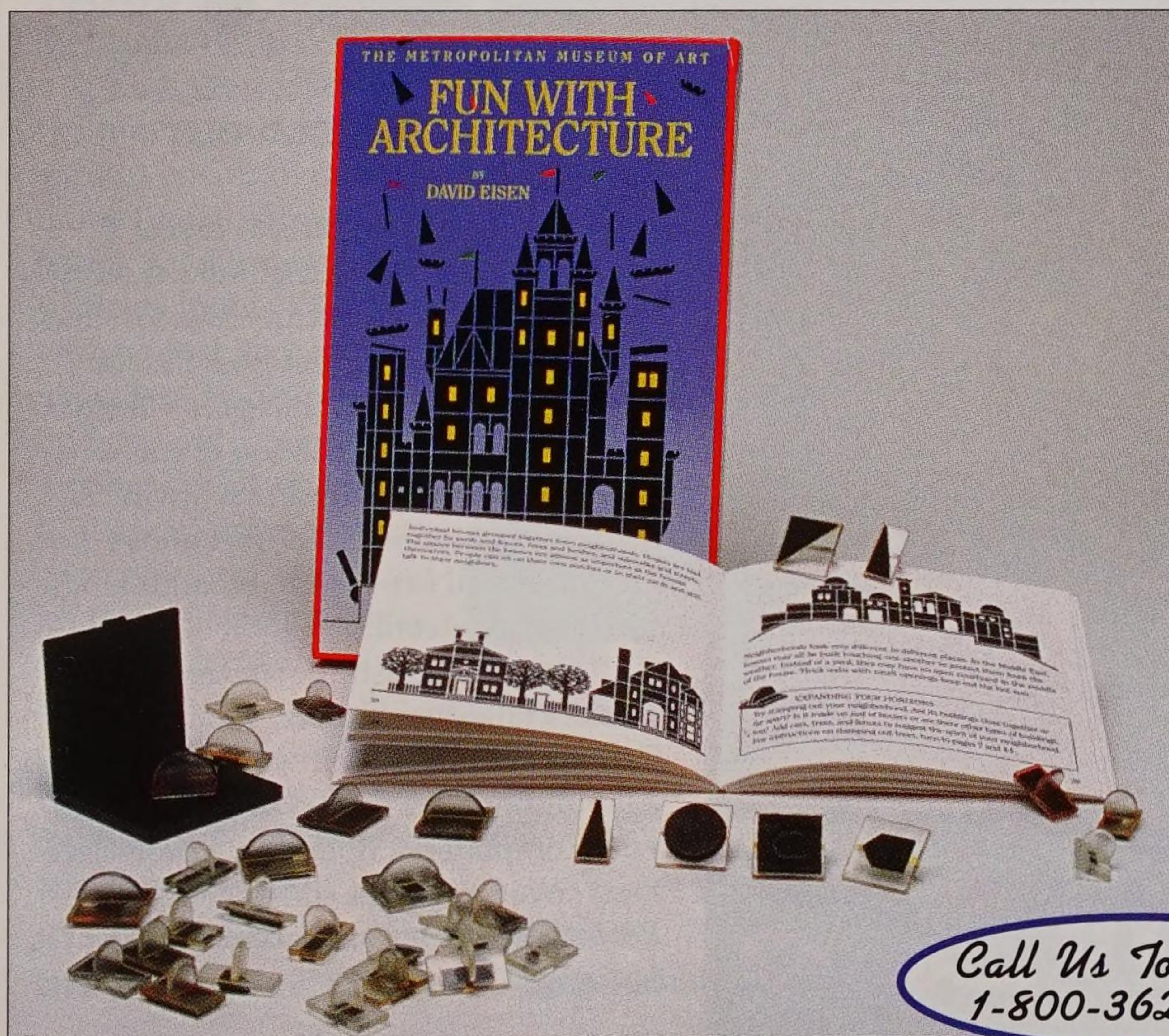


FUN WITH ARCHITECTURE

Here's an unconventional (not to mention brilliant) way to get your students interested in architecture and design. This set of 35 rubber stamps lets students stamp out fantastic structure like a modern suspension bridge, Rome's Pantheon, a simple country house, or an entire cityscape. While doing so, they learn the elements of architecture.

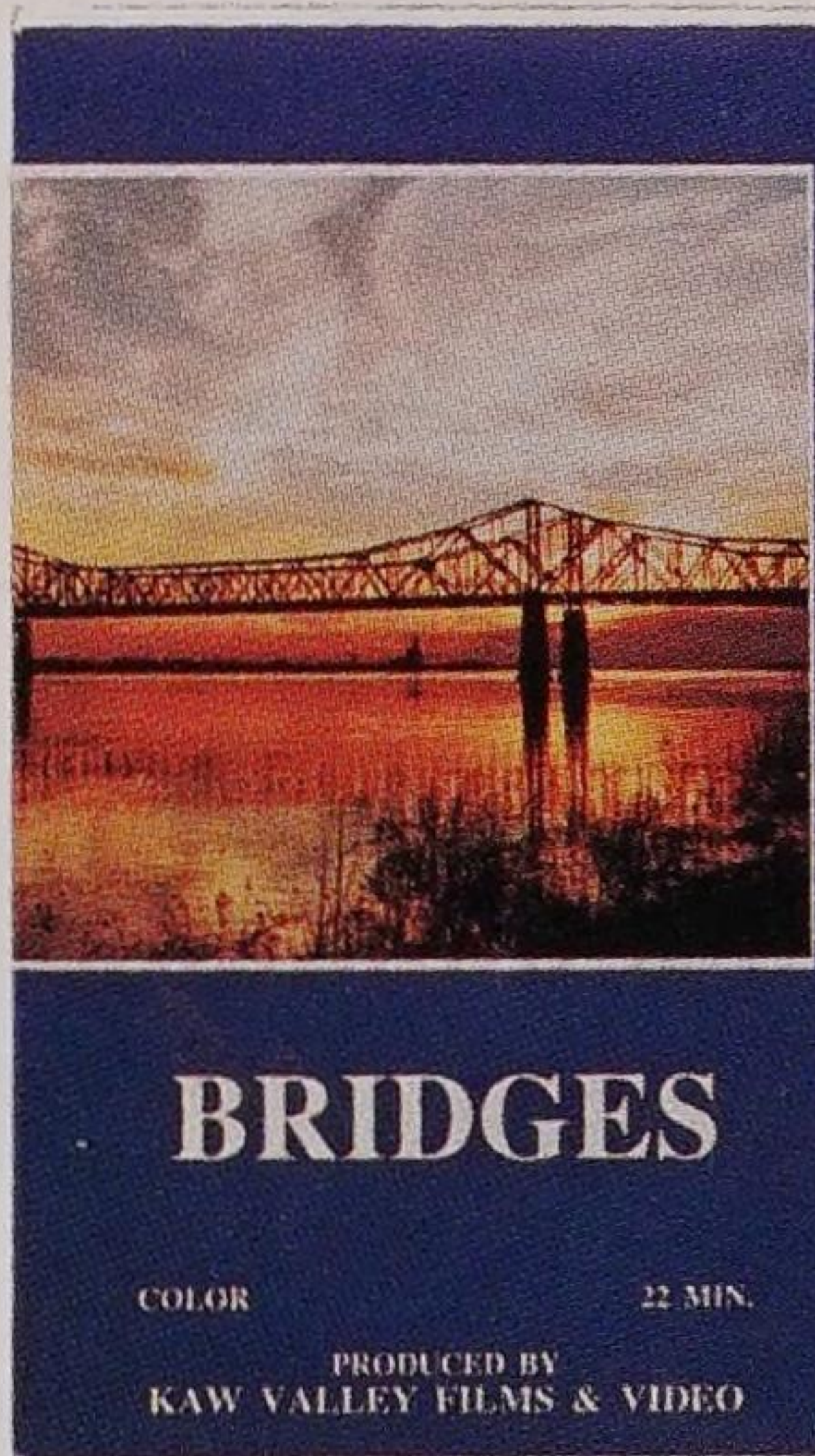
Includes a guidebook, written by an architect and a teacher, that introduces basic architectural principles and styles from the ancient world to the present day. Readers can recreate the book's many illustrations or create their own designs. Packaged in a sturdy storage case with magnetic closure, an ink stamp pad, and an "Elements of Architecture" chart.

N752796—\$22.50



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A master can tell you what he expects of you. A teacher, though, awakens your own expectations.
Patricia Neal



BRIDGES VIDEO

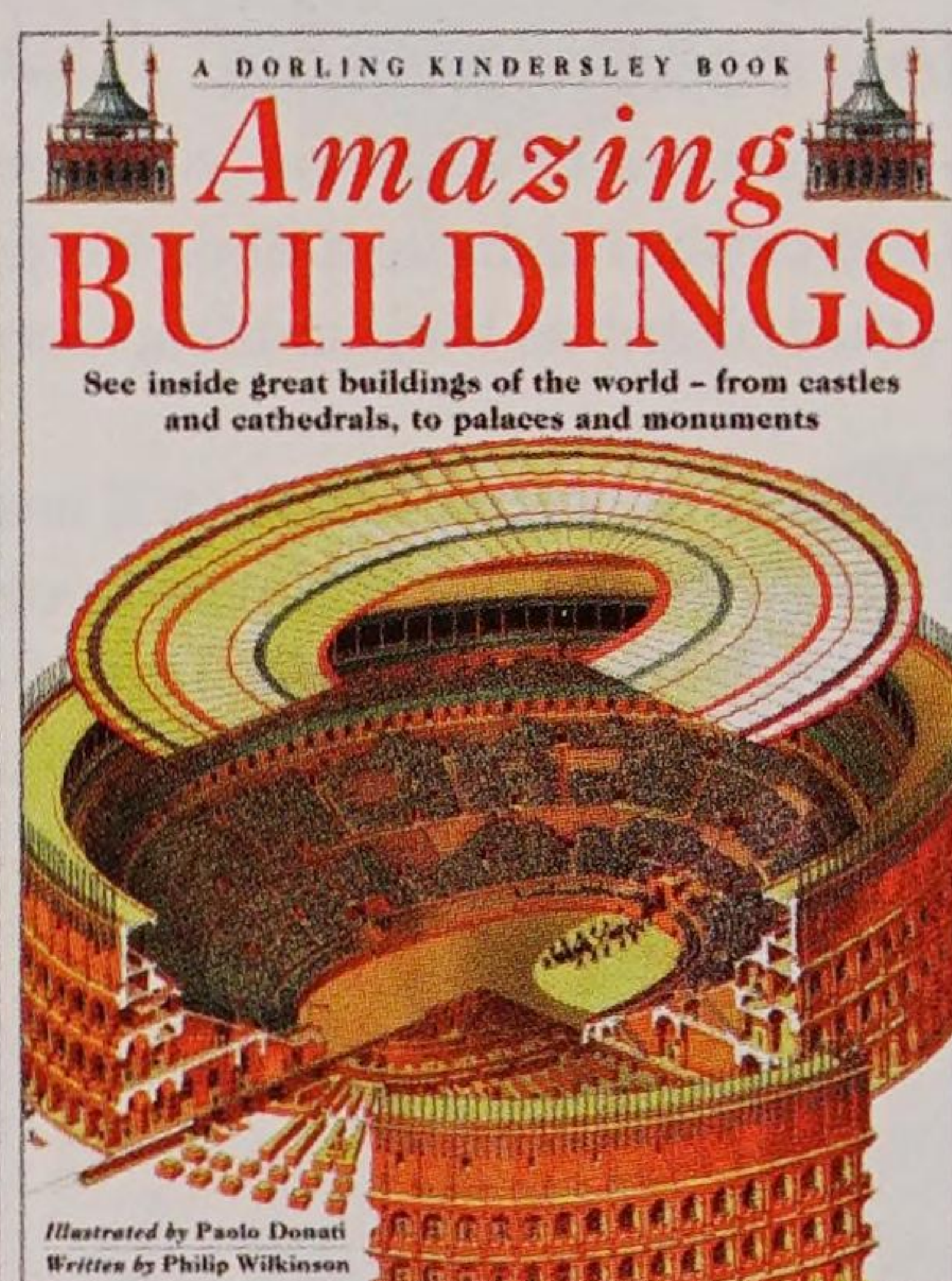
A stimulating way to introduce students to a bridge building unit! Bridges starts in the beginning, when nature provided our first bridges—logs, rocks, hanging vines, and chronicles the progression of bridge technology—wood, stone, iron, steel and reinforced concrete.

Bridges also explores the various uses of bridges, as well as the 4 basic bridge designs: beam, arch, suspension, and pontoon. It includes famous bridges and features exciting footage of the spectacular collapse of the Tacoma Narrows bridge.

Time: 22 minutes.

Viewing Level: Middle School - High School

N752105—\$49.95



AMAZING BUILDINGS

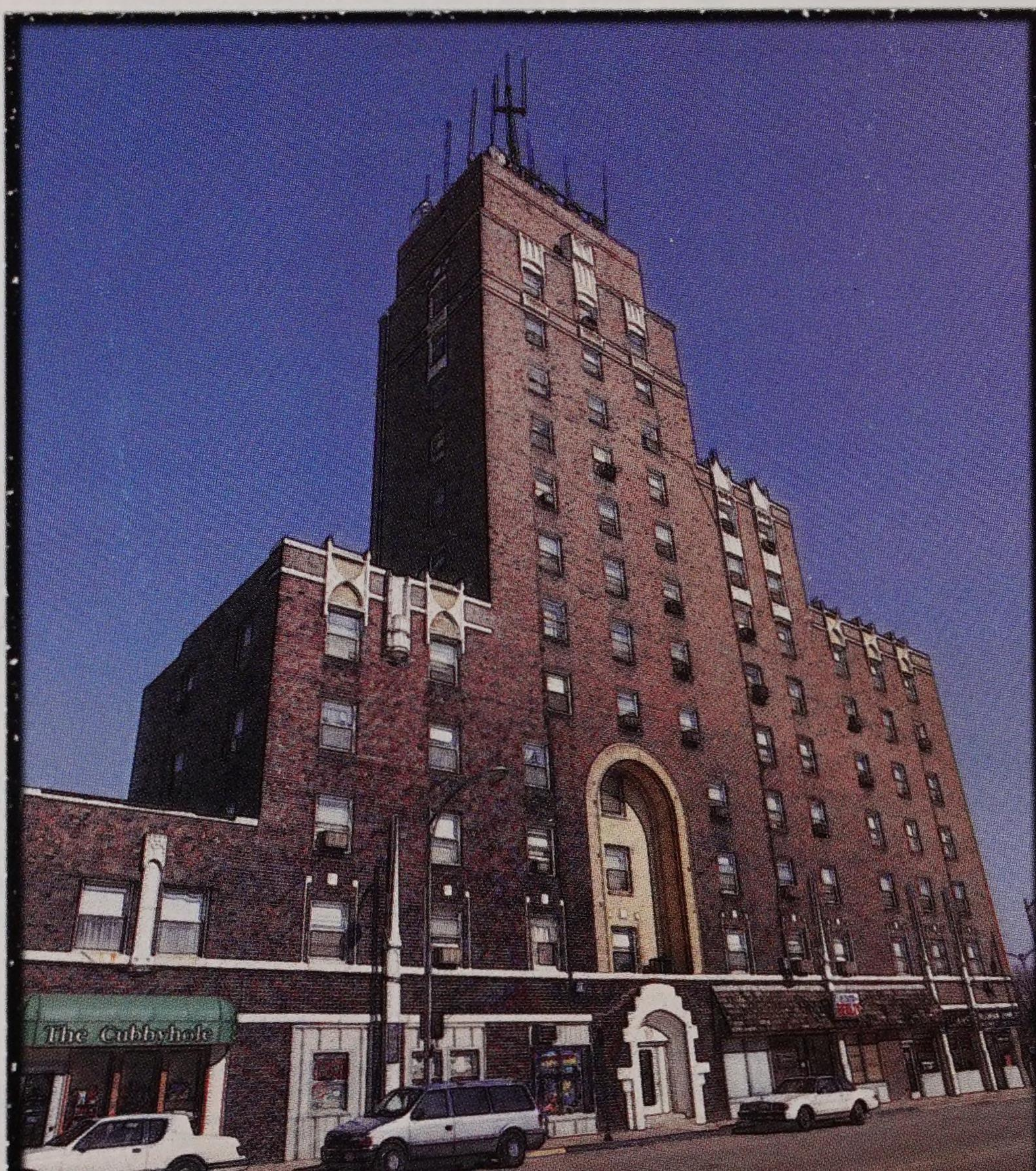
Philip Wilkinson

Amazing Buildings is an introduction to the fascinating world of architecture. The large-scale artwork, with sections cut away and roofs lifted off, allows students to step inside over 20 of the world's finest ancient and modern buildings.

Hardback, pages 48.

Reading Level: Middle School

N752117—\$16.95



SKYSCRAPERS FOLD-OUT BOOK

Skyscrapers unfolds to reveal 2 towering illustrations that tell the story of the world's tallest structures! On one side of the book you can peer into an amazing cutaway of Chicago's Hancock Center. From its foundation of caissons 15 stories below ground to its twin TV and radio antennas 1,127 feet above ground, its all exposed in breathtaking, true-to-scale detail.

A second illustration sizes up the world's tallest structures, from the Ulm Cathedral to the CN Tower in Toronto. All buildings are drawn to scale for your comparison. Bound in a protective hard cover. Fold-out size is 65-1/2".

Reading Level: Middle School - Adult

N754922—\$14.95

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SCIENCE & TECHNOLOGY

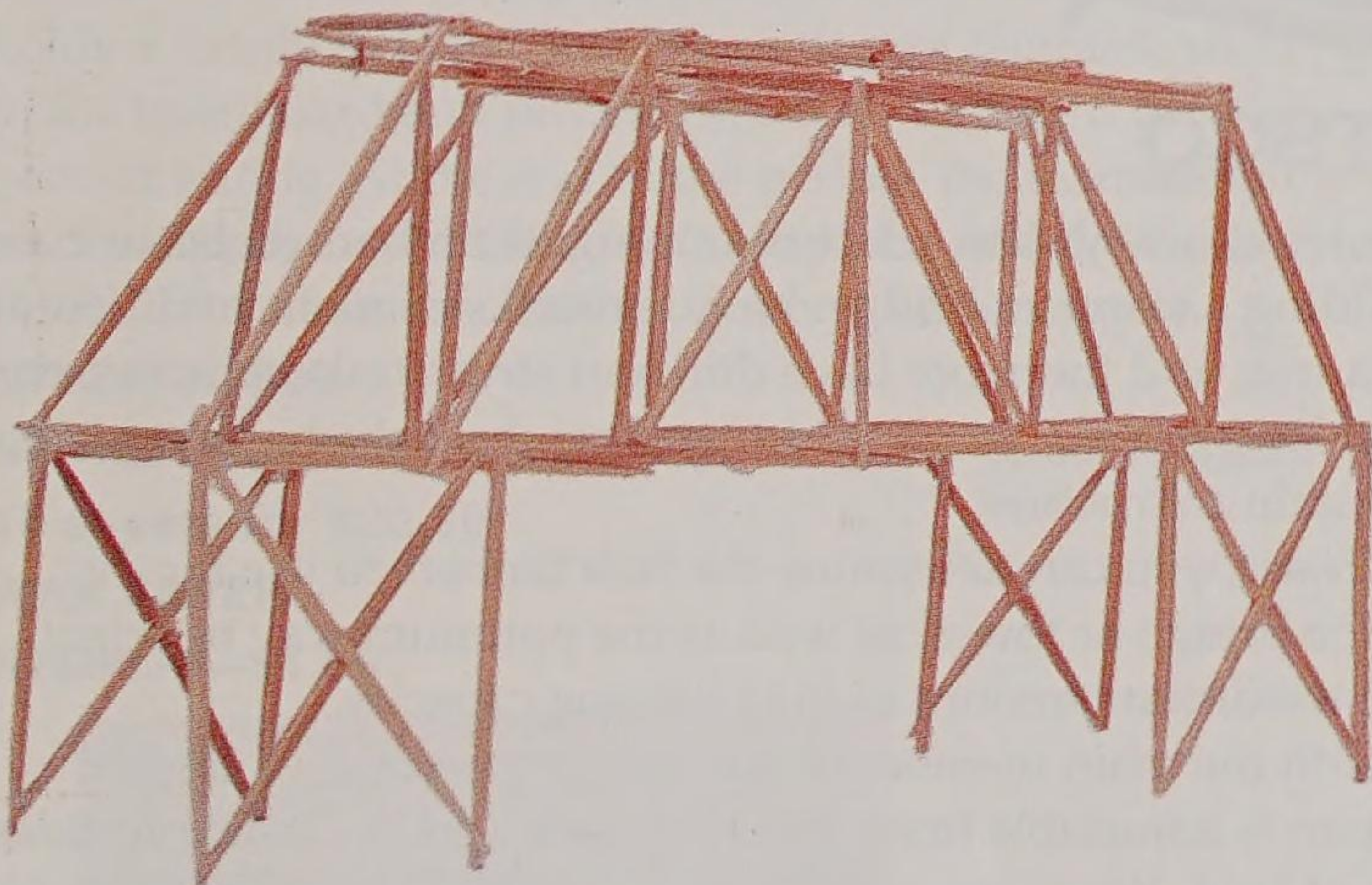
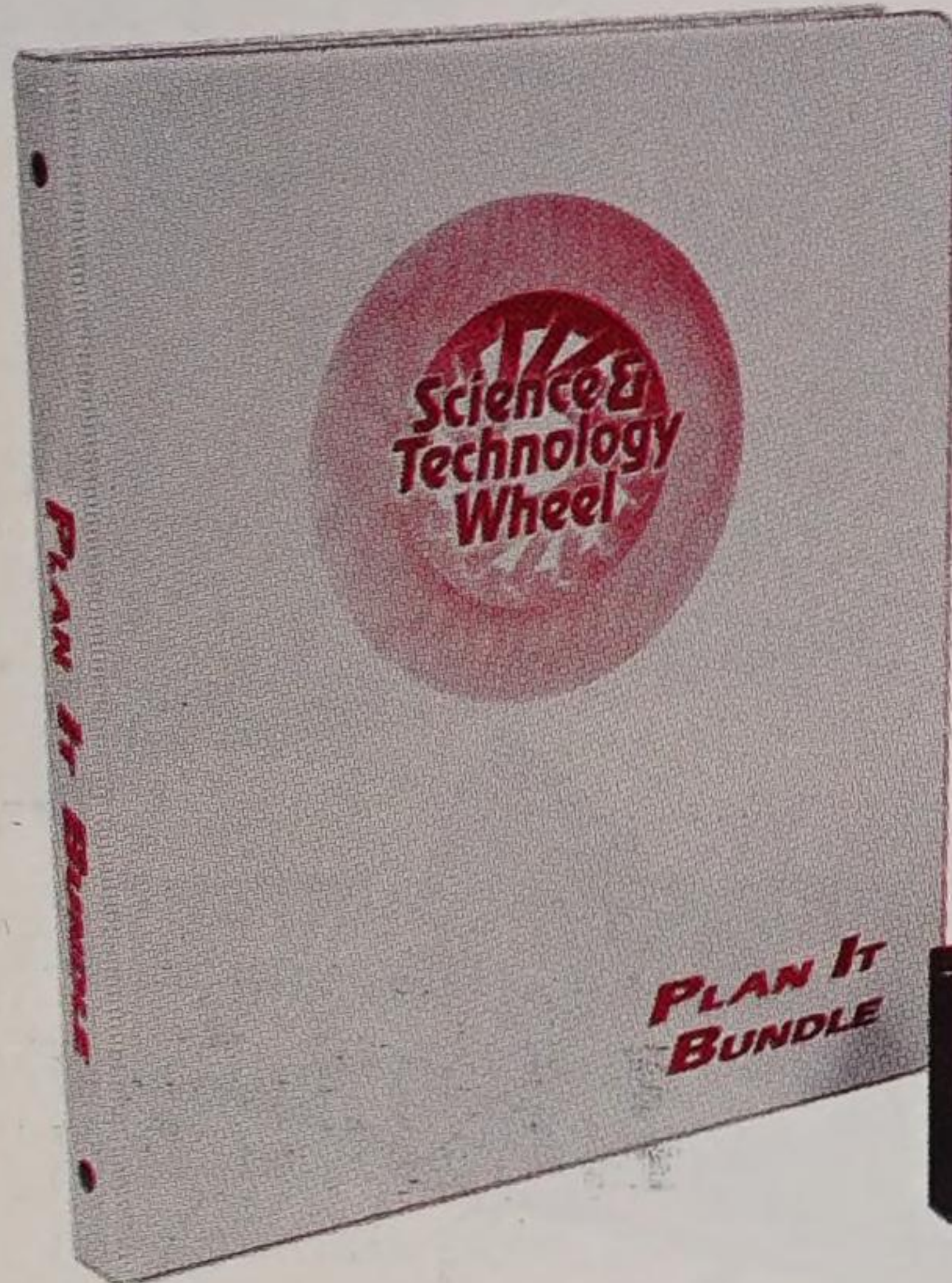
EXCLUSIVE

WHEEL - PLAN IT! BUNDLE

A Macintosh computer-based curriculum that helps students begin to understand project planning. Topics include design, drafting and engineering. Hands-on activities teach students elementary drafting skills and provide construction experience by building a model tower.

We recommend purchasing the ChallengePak (on page 29) for supplies for the hands-on activities. Requires HyperCard 2.1 or later.

N990021 Macintosh—\$120



BUILDING TOOTHPICK BRIDGES

By Jeanne Pollard

Link your math curriculum to the world around you with the motivational ideas in this book. A "company" of students builds a bridge with an architect, project managers, bookkeepers, a budget, and materials. The book provides a practical approach to math, geometry, and social studies through the problem of bridge construction.

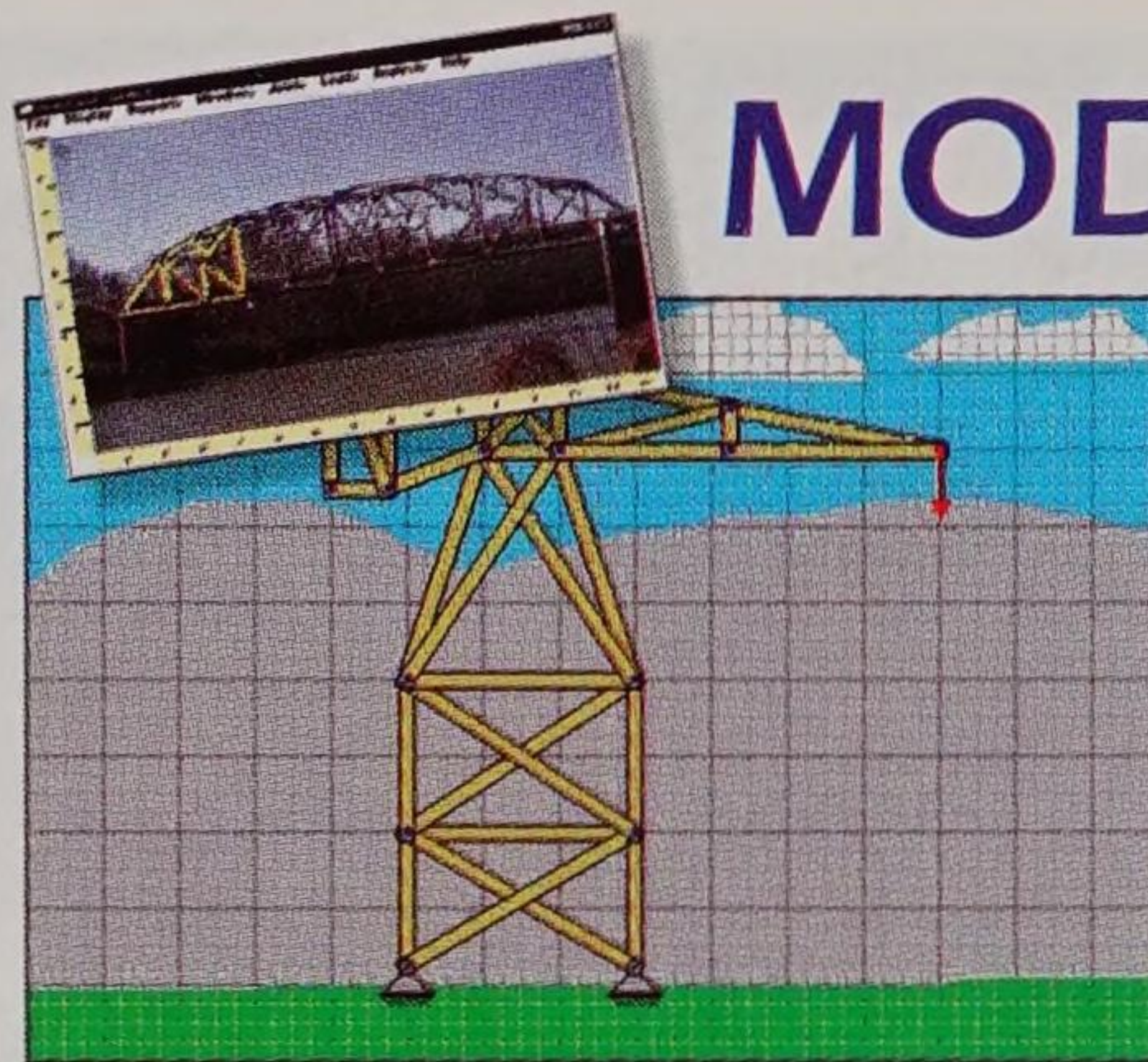
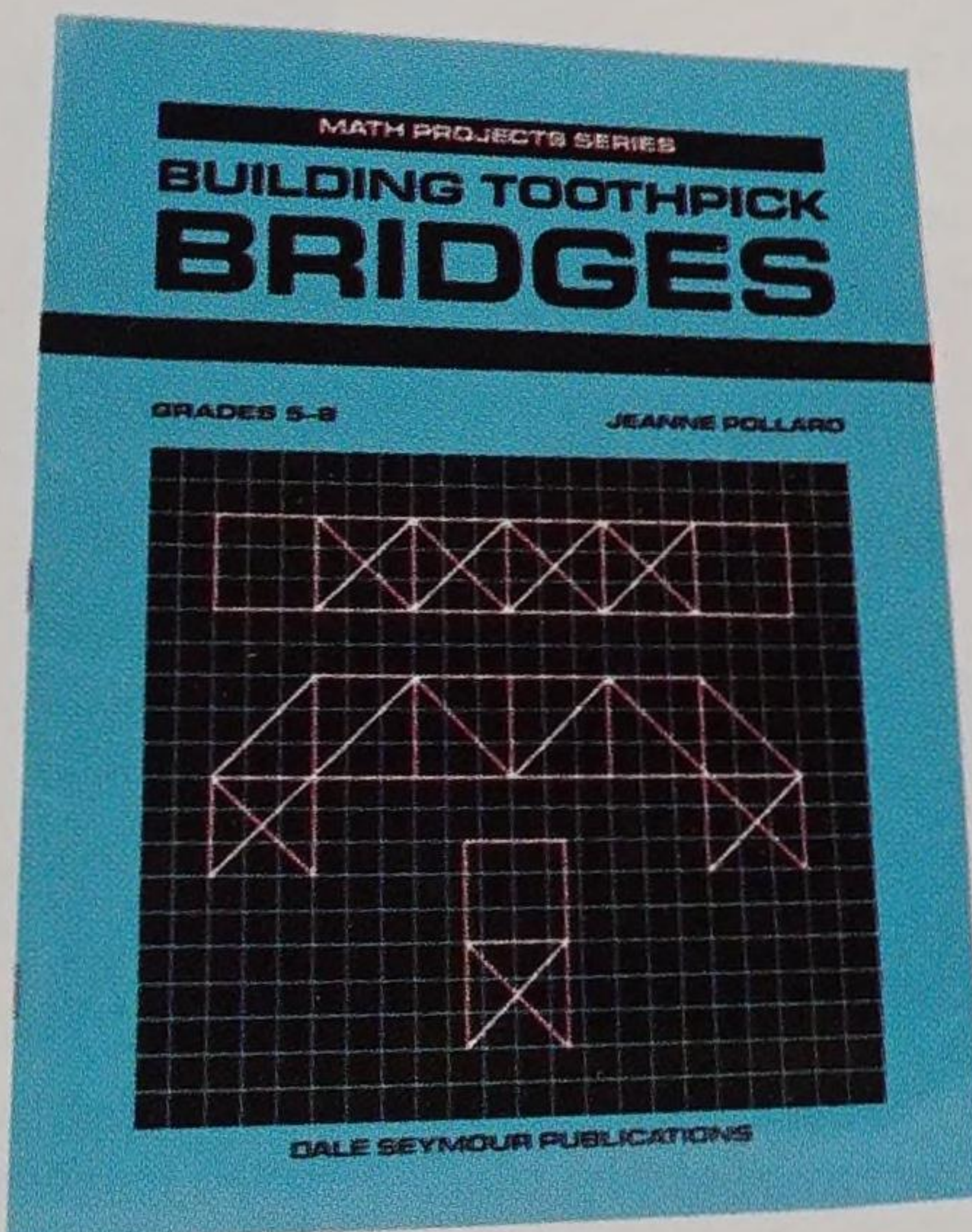
For the teacher, the book contains clear guidelines and plans for this valuable unit. Paperback, 30 pages.

Reading Level: Intermediate - Middle School

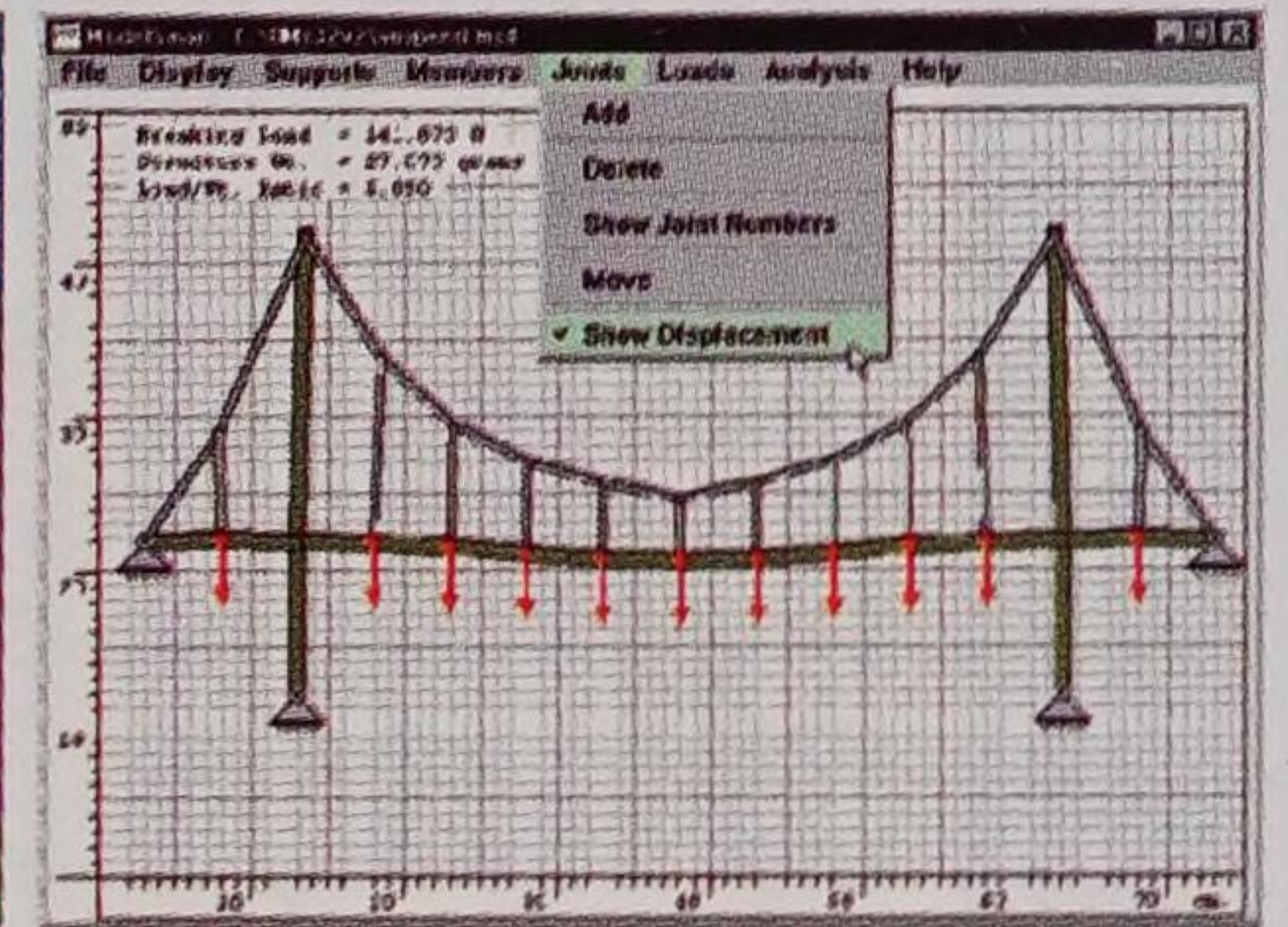
N751784—\$9.95

N751741 Round Toothpicks (800)—\$1

N751742 Square Toothpicks (800)—\$1.95



MODELSMART



MODELSMART

ModelSmart allows students to interactively design balsa and basswood models of bridges, cranes, towers and all kinds of structural systems on the computer! ModelSmart then analyzes the model, gives numerical results, and simulates the results by showing a deflected shape or collapse. Students can explore structural design ideas before they begin building with real materials! Designed to introduce middle and high school students to basic engineering concepts and reinforce math and science skills.

- Lab pack license for use on 5 computers.
- School Pack license for use on 25 computers.
- Net Pack license for use on 1-30 station network.

N754648 Windows—\$69.95

N754653 Win. Lab Pack—\$299.95

N754650 Macintosh—\$69.95

N754654 Mac Lab Pack—\$299.95

N754651 Win. School Pack—\$599.95

N756187 Win. Net Pack—\$699.95

N754652 Mac. School Pack—\$599.95

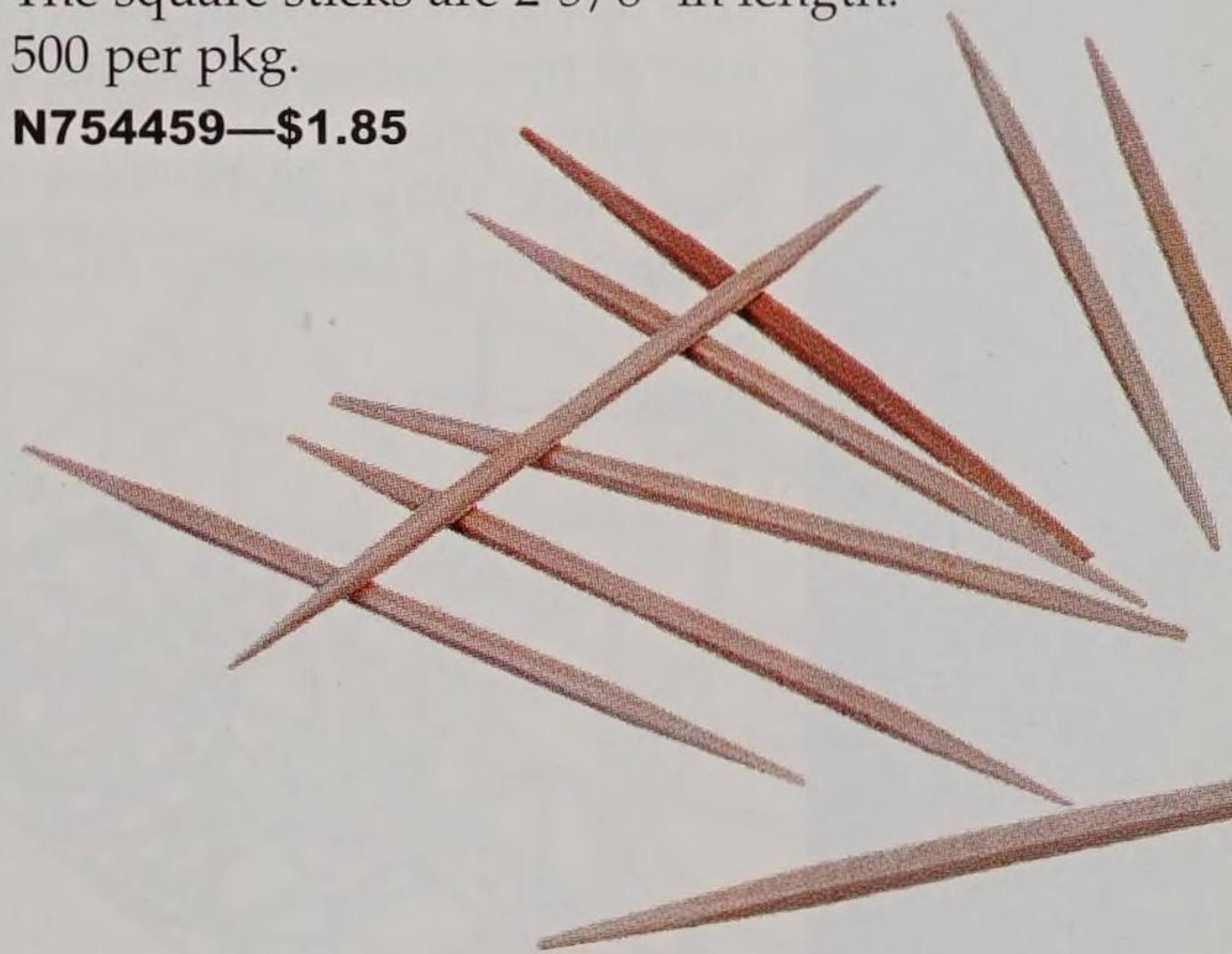
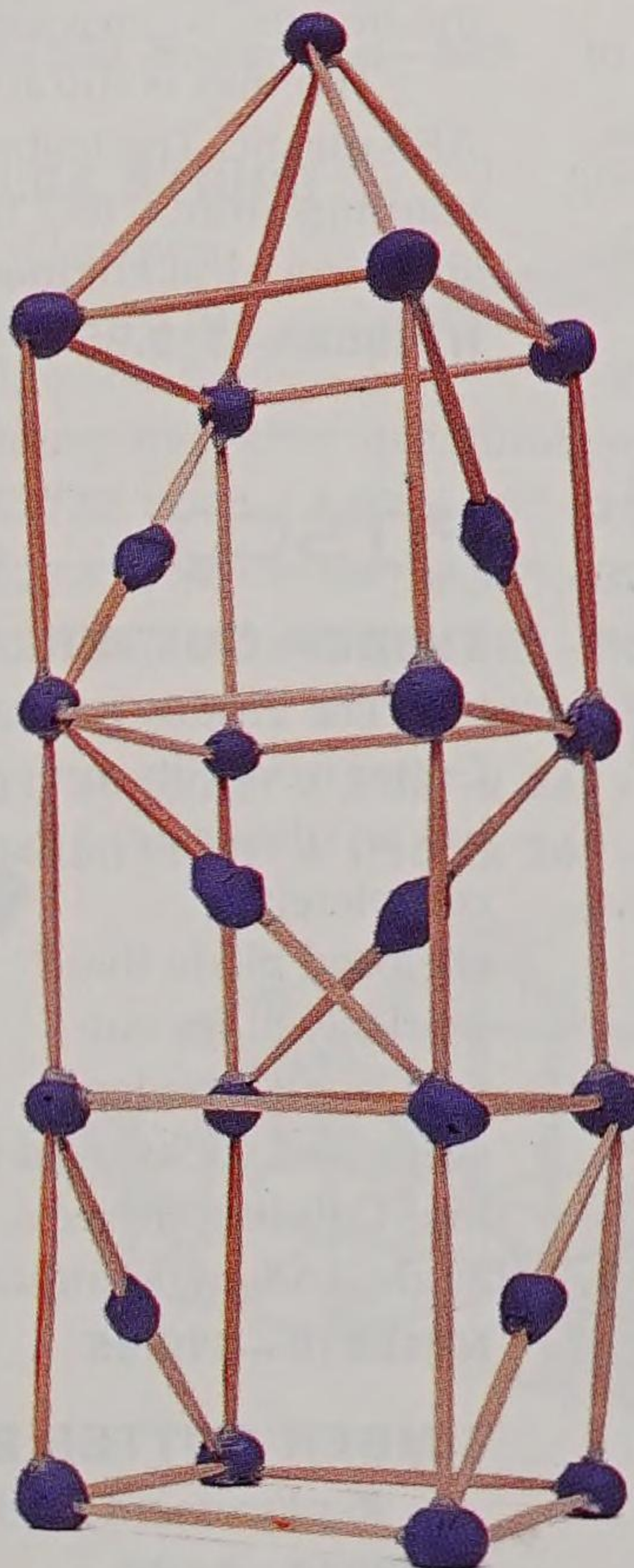
N756188 Mac. Net Pack—\$699.95



BLUNT END STRUCTURE STICKS

Try these structure sticks instead of toothpicks. Blunt ends not only make them safer to work with, but they also allow for more precise joints and stronger structures! The square sticks are 2-5/8" in length. 500 per pkg.

N754459—\$1.85



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PARTNERS IN INNOVATIVE EDUCATION

BRIDGEPAK (FOR 25 STUDENTS) **PITSCO**
INNOVATIVE EDUCATION

Balsa or basswood strips, individual bottles of Pitsco colored wood glue, Pitsco Bridge Book, student guide sheets...shall we go on?

Let's just say it's everything you need to complete an exciting bridge design and building activity for a class of 25.

Balsa strips are 1/8" x 1/8" x 24".

Basswood strips are 3/32" x 3/32" x 24".

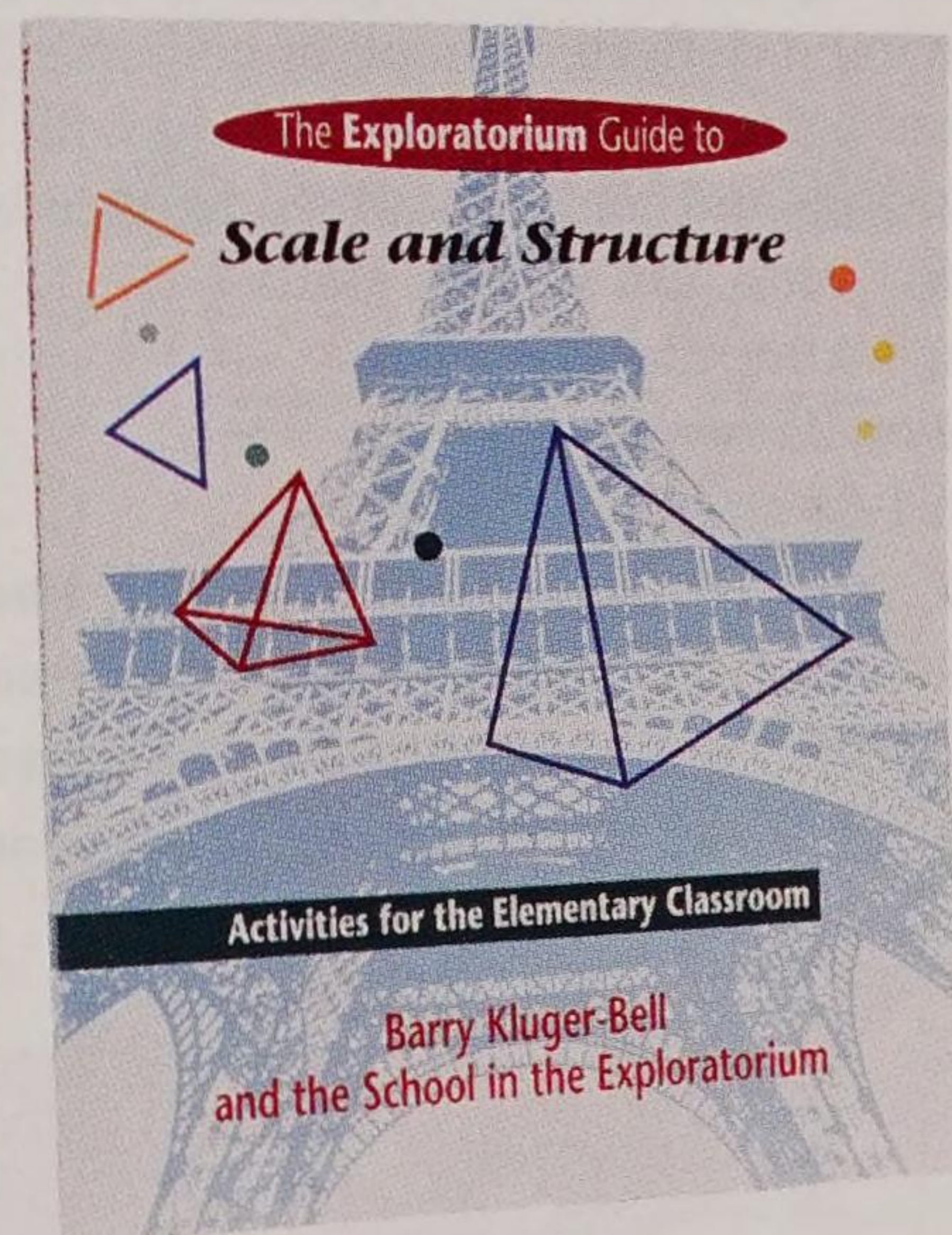
N751706 Balsa—\$75

N751707 Basswood—\$75

N751705 Pitsco Bridge Bk.—\$2

10 books for \$18

Excellence in any department can be attained only by the labor of a lifetime, it is not to be purchased at a lesser price. Johnson

**THE EXPLORATORIUM GUIDE TO SCALE AND STRUCTURE**

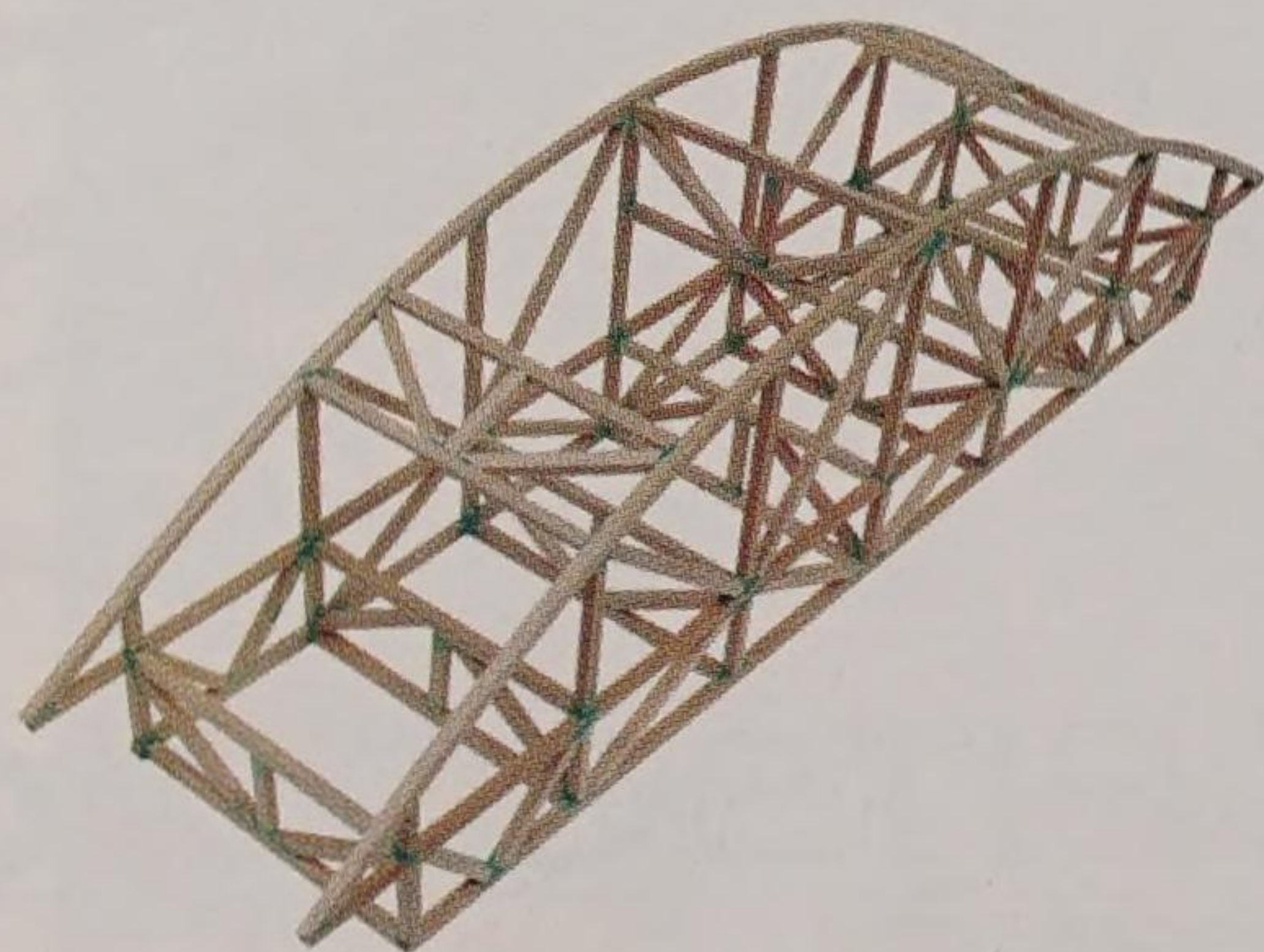
Barry Kluger-Bell

A teacher's resource book full of structural engineering activities. Fun, practical activities teach aspiring engineers about structures and scale. Great for introducing students to structures. Projects include building with straws, clay and toothpicks, paper bridges, building domes and load testing structures. Filled with helpful illustrations and photos of kids doing the activities. Includes teacher tips, discussion points, and extension options.

Paperback, 198 pages.

Reading Level: Elementary - Middle School

N754466—\$39.95

**TIMBER TESTER** **PITSCO**
INNOVATIVE EDUCATION

The Pitsco Timber Tester allows you to select the strongest timbers (balsa or basswood strips) to use in building a tower or bridge. Wooden sticks come from different trees or different parts of a tree, and therefore have different structural characteristics. Also, timbers, like baseball bats, have a "strong side" and can bear the highest loads when oriented correctly within a structure.

By using the Timber Tester, you can determine the best timbers to use for the most critical members of the bridge or tower, as well as the optimum way to orient the timbers to provide the maximum amount of load bearing capacity.

The unit is durable, with the main member of the unit constructed of rugged ABS plastic. The testing span is adjustable from 4 to 12 inches, and the scale provides readings from 0 to 7 units of load. We recommend one timber tester for every four to six "structural engineers."

N718523—\$19.95

PITSCO
INNOVATIVE EDUCATION**TIMBER CUTTER**

The Timber Cutter from Pitsco has an ultra-safe, completely enclosed blade that works well for cutting small wooden strips and sticks used in various building projects.

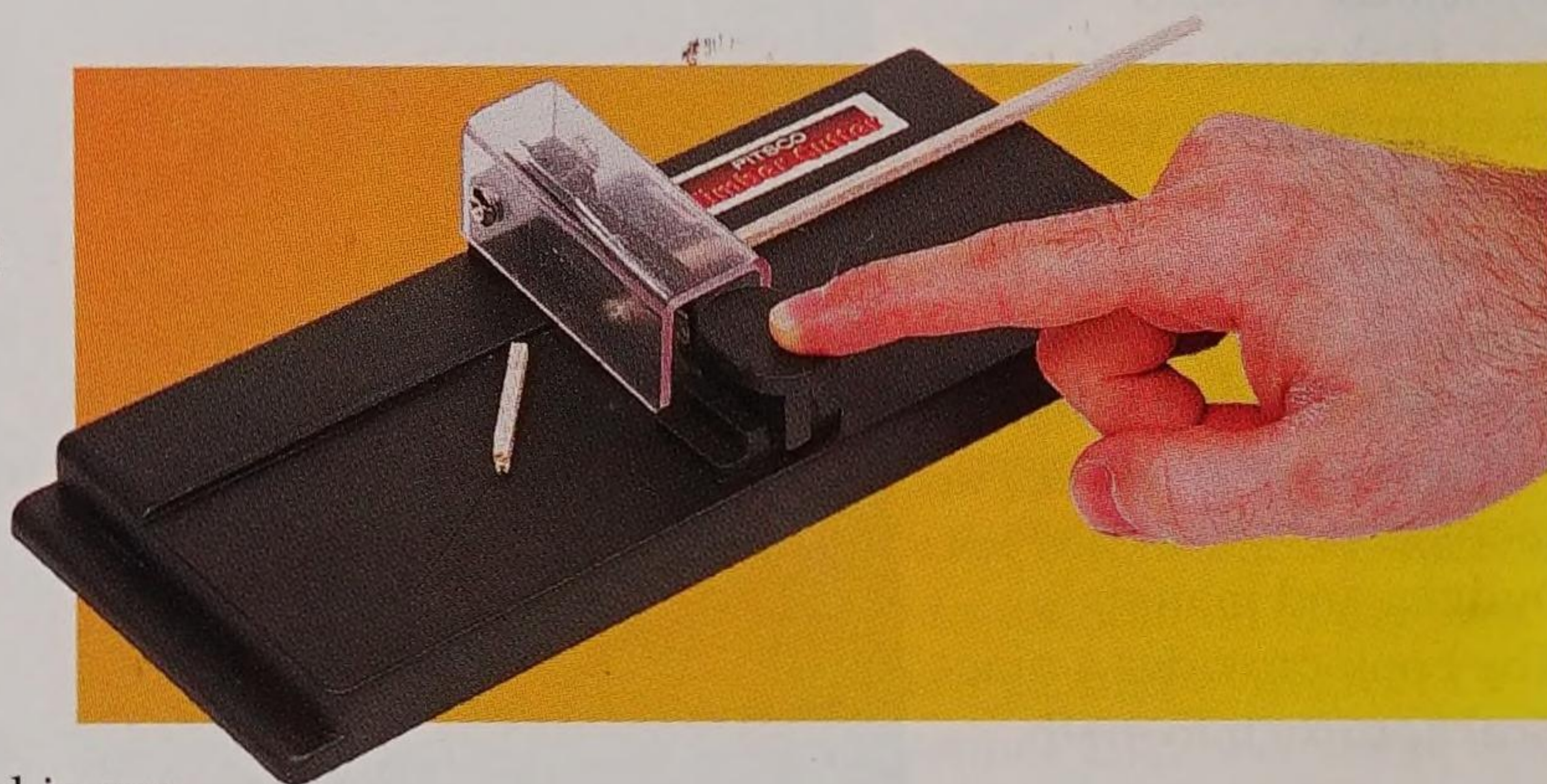
The razor-sharp blade rotates to allow virtually any cutting angle, and angle indicator marks serve as a guide. Five extra blades are included.

N718818—\$19.95

TIMBER CUTTER BLADE PACKAGE

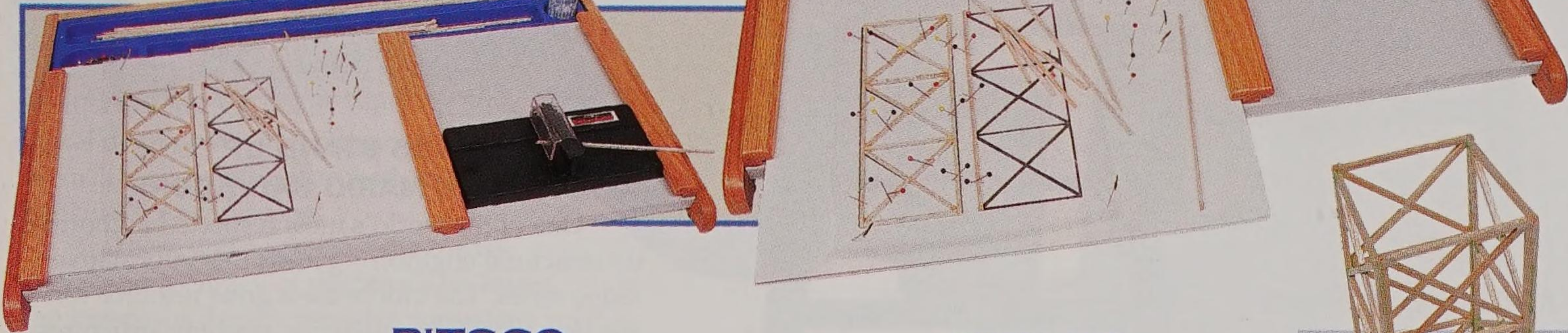
Replacement blades for the Pitsco Timber Cutter. Pkg. of 5.

N718819—\$1.20



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Construction Caddy



CONSTRUCTION CADDY **PITSCO** INNOVATIVE EDUCATION

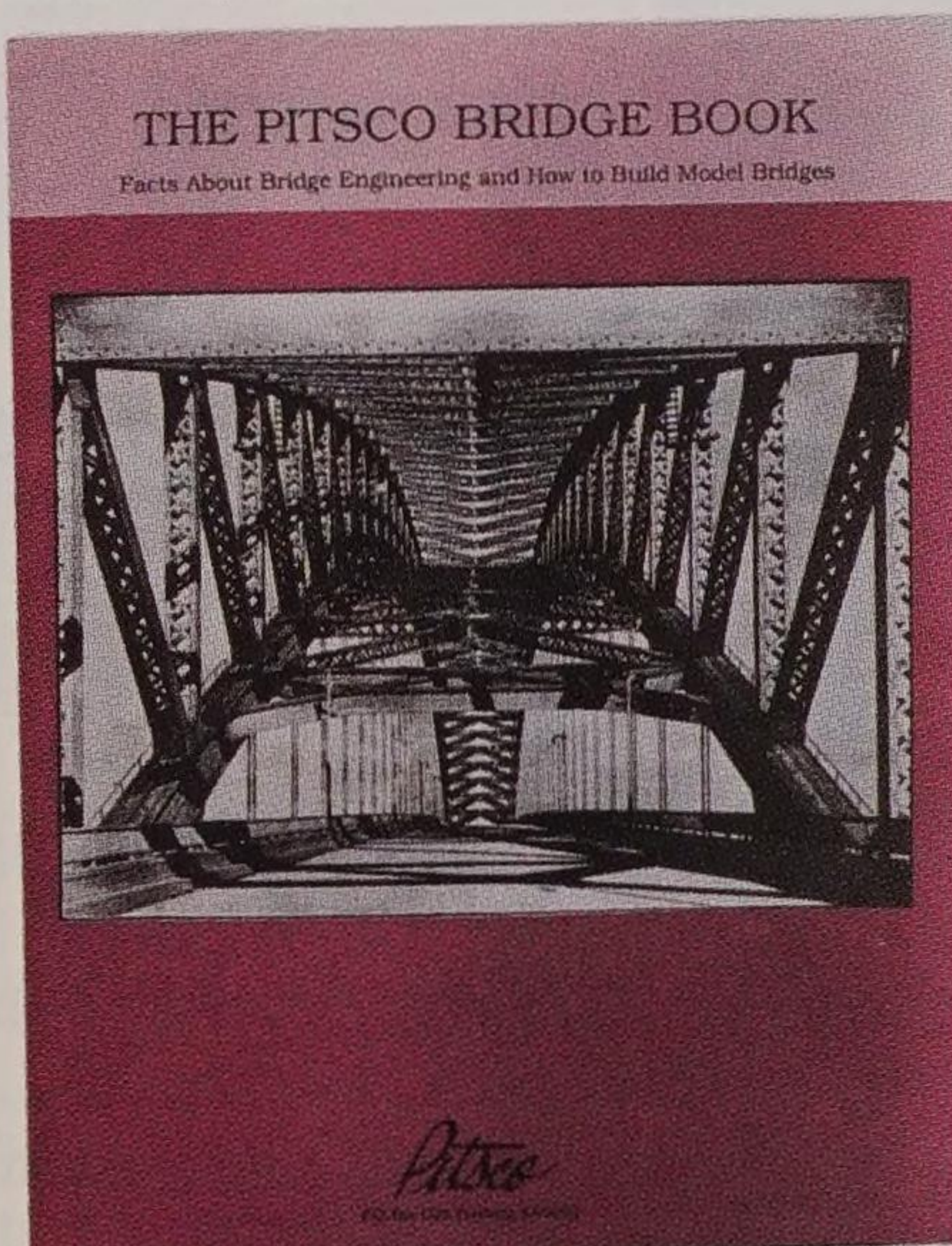
The Construction Caddy is designed to organize often cluttered engineering projects such as bridge building, structural projects and model plane construction. The caddy holds pens, pencils, straight pins, glue bottles and building material in an easy access tray. +The spacious 12" x 26" work area accepts a piece of foamboard and holds it firmly in place. Just tape a design template sheet to the foamboard and pin the pieces to the board for convenient gluing. At the end of the period, the foamboard can be slid out and stored in a safe place, and the Caddy is ready for more use. Timber Cutter sold separately.

N713163—\$99

**N751528 Foamboard sheets (3/16" x 12" x 36")—\$2.25
10 sheets for \$20.30**

WAX PAPER

N750032—\$1.95



PITSCO BRIDGE BUILDING BOOK **PITSCO** INNOVATIVE EDUCATION

A complete guide to model bridge building. Discusses history of bridges, types of trusses, glue joints, and construction ideas.

Illustrated student guide includes competition rules, drawings, and a crossword puzzle to be filled out by the student. Can also be used as a teacher's resource.

Paperback, 22 pages.

Reading Level: Middle School - High School.

N751705—\$2

10 for \$18

TOWERPAK **PITSCO** INNOVATIVE EDUCATION (FOR 25 STUDENTS)

The TowerPak is the most convenient and economical way to introduce an exciting tower activity to your entire class.

The TowerPak supplies an entire class with the materials they need for the activity—your choice of balsa or basswood building material,

colored Pitsco structure glue (the color makes it great for locating and judging joints), 25 tower design grid sheets and 25 copies of the tower design and building activity guide.

Not intended for use with Epicenter; see Structure Tester on page 21.

N752534 Balsa—\$95

N752537 Basswood—\$95

BALSA STRIPS

Use these balsa strips for bridge and tower building and other structural engineering projects.

N752732 (1/8" x 1/2" x 36" - 25 pcs) —\$16

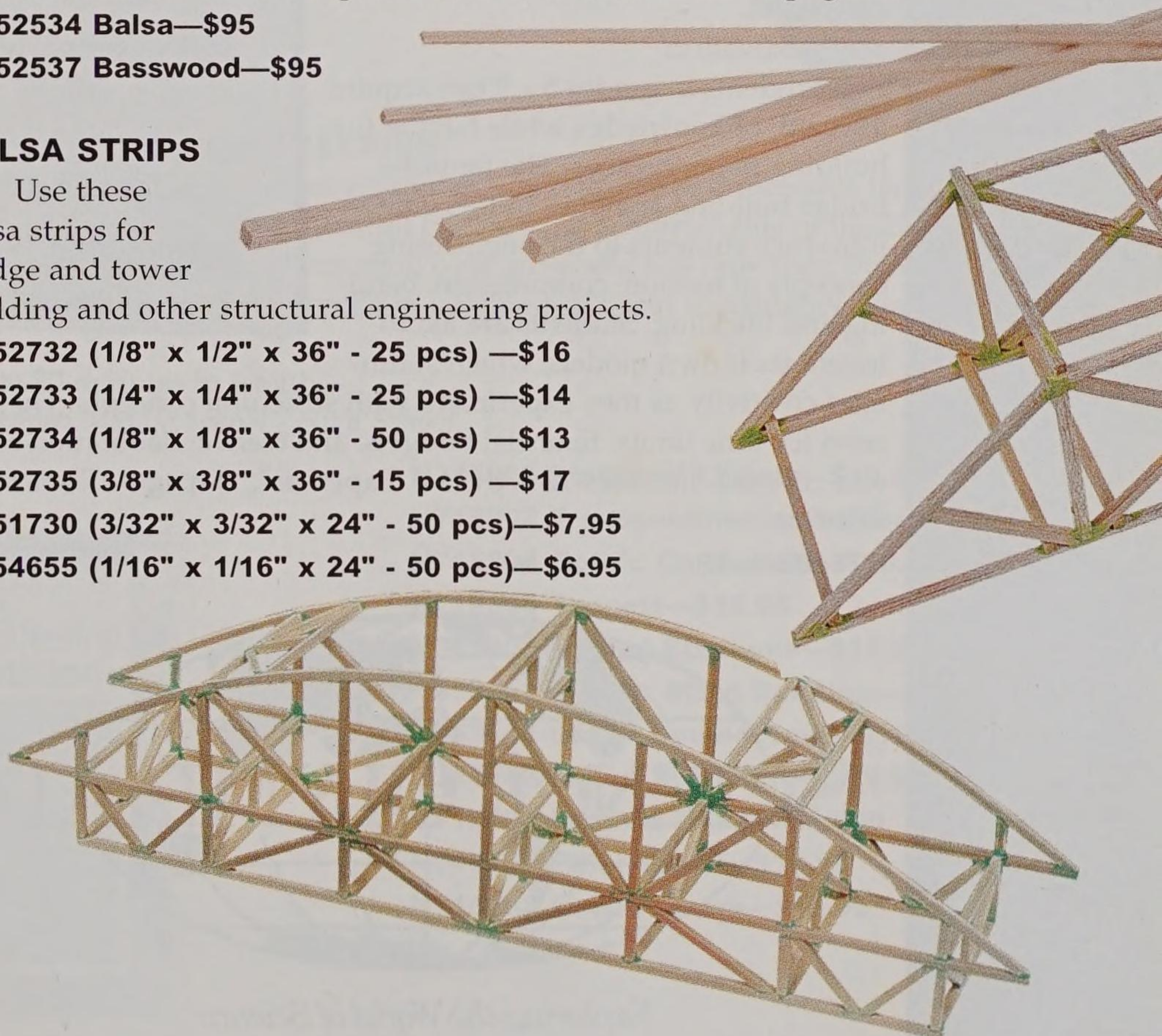
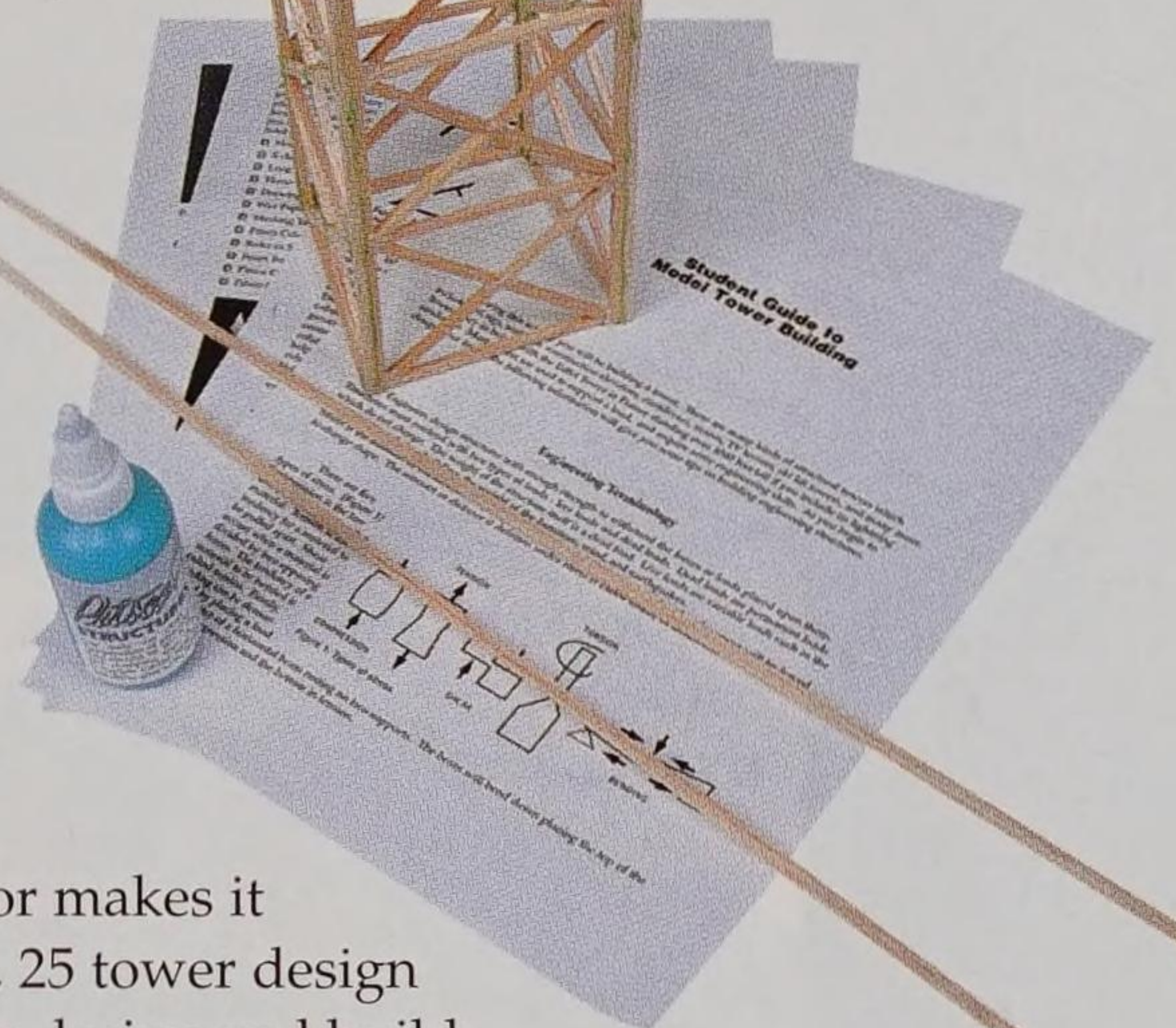
N752733 (1/4" x 1/4" x 36" - 25 pcs) —\$14

N752734 (1/8" x 1/8" x 36" - 50 pcs) —\$13

N752735 (3/8" x 3/8" x 36" - 15 pcs) —\$17

N751730 (3/32" x 3/32" x 24" - 50 pcs) —\$7.95

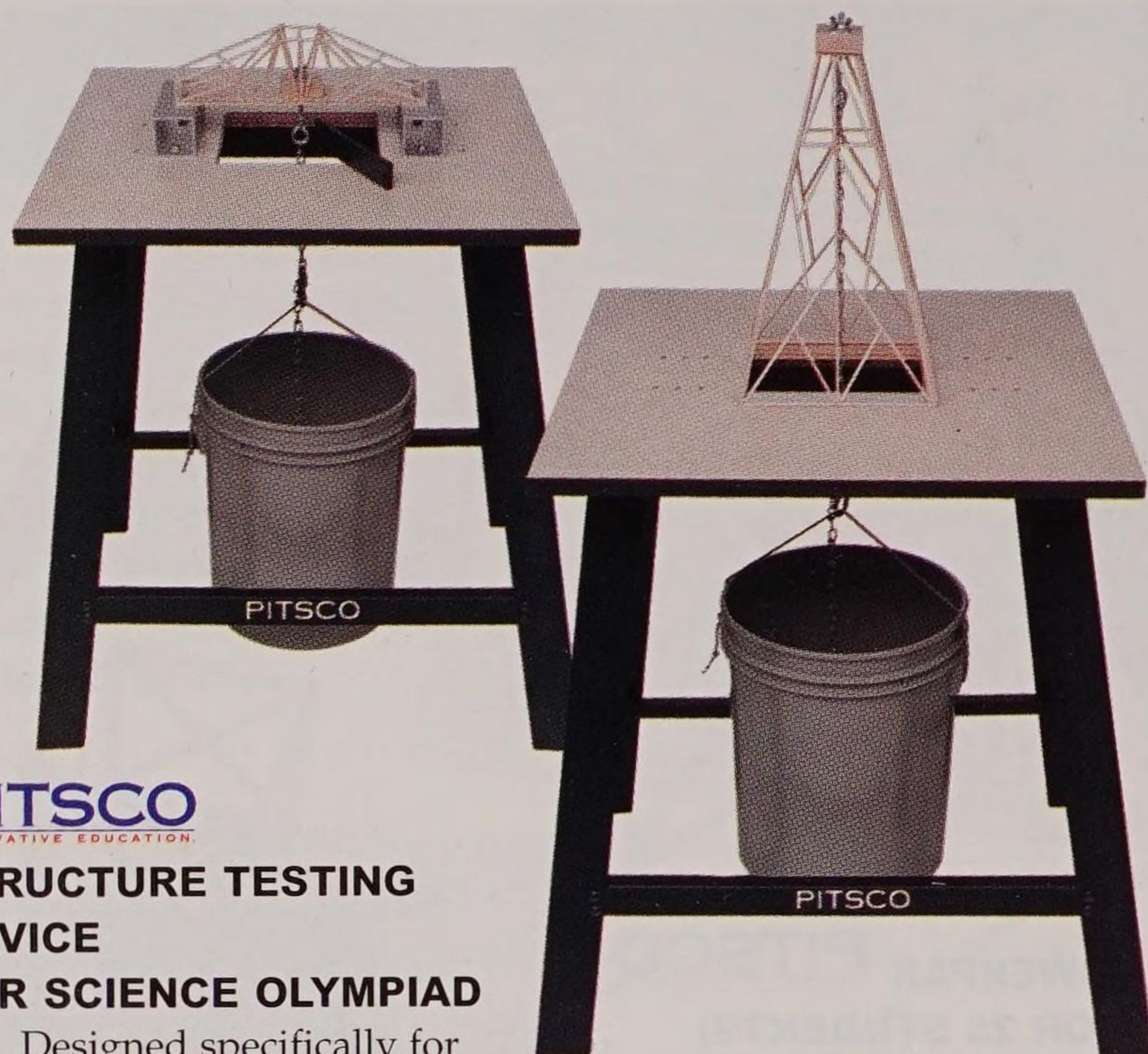
N754655 (1/16" x 1/16" x 24" - 50 pcs) —\$6.95



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PITSCO **LEGO** **dacta**
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There are three things to remember when teaching: know your stuff; know whom you are stuffing; and then stuff them elegantly.
Lola May



PITSCO
INNOVATIVE EDUCATION

STRUCTURE TESTING DEVICE FOR SCIENCE OLYMPIAD

Designed specifically for testing bridges and towers in Science Olympiad competitions! Features a sturdy metal stand with an adjustable bridge span. A test block sits on the road bed, under which a bucket is suspended. The load can be gradually applied to the bridge or tower by slowly adding the sand (sand not included).

Includes stand, test block, chain, bucket and other necessary hardware.

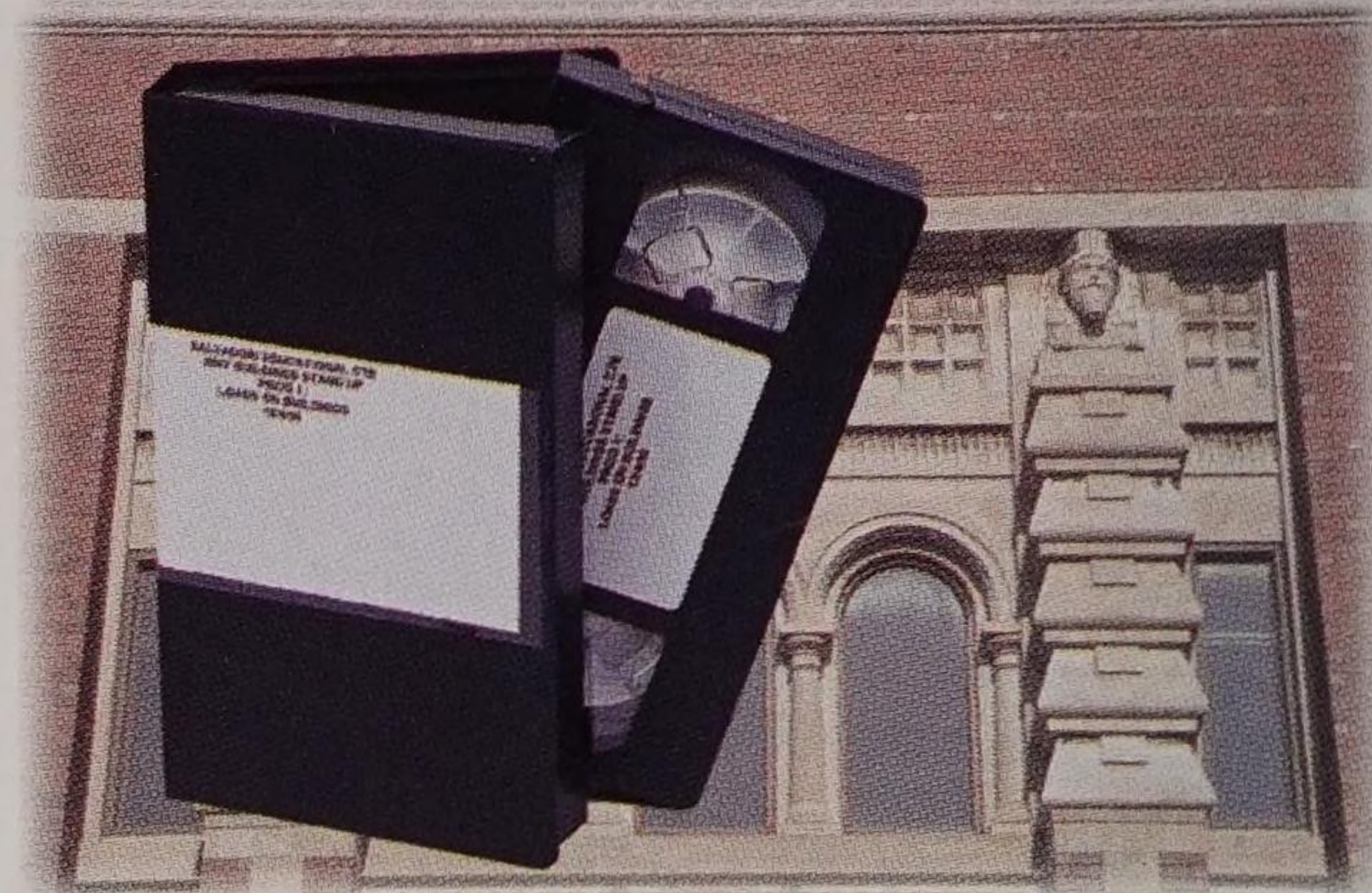
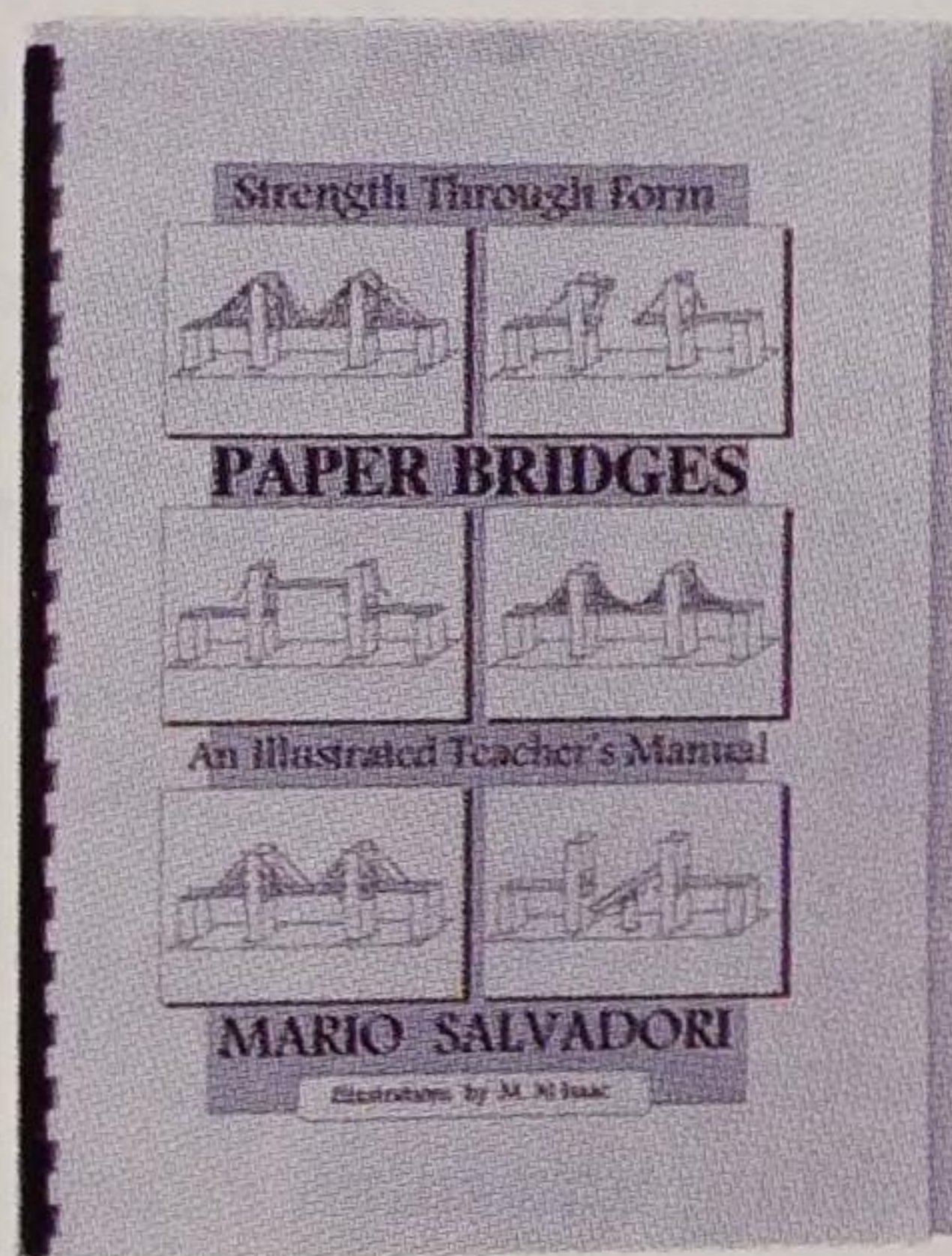
N754604—\$175

PAPER BRIDGES: STRENGTH THROUGH FORM AN ILLUSTRATED TEACHER'S MANUAL

Mario Salvadori

Students in grades 5 – 9 can acquire a wealth of knowledge while having fun building paper bridges. The fantastic bridge building activities in this guide introduce students to the engineering concepts of tension, compression, bending and buckling. Students are led to invent their own models, which stimulates creativity as they experiment with structural concepts. The need for time limits, financial budgets, and team collaboration are also covered. Includes 12 activities. Paperback, 30 pages. *Teacher Resource*

N754924—\$8



WHY BUILDINGS STAND UP VIDEOS WITH MARIO SALVADORI

One of the world's most respected authorities on structural engineering hosts this informative video series. The videos are a great resource for teachers who are considering teaching structures but don't know where to begin. Ideas for activities and even classroom presentation are covered at length.

Teacher Resource

PROGRAM 1: LOADS ON BUILDINGS

27 minutes.

N754925—\$25

PROGRAM 2: EQUILIBRIUM AND MATERIALS

27 minutes.

N754926—\$25

PROGRAM 3: BRIDGES

26 minutes.

N754927—\$25

PROGRAM 4: PAPER STRUCTURES

21 minutes.

N754928—\$25

PROGRAM 5: CHILDREN AND MATH

25 minutes

N754929—\$25

PROGRAM 6: HISTORY OF ARCHITECTURE ENGINEERING

30 minutes.

N754930—\$25

PROGRAM 7: SWING BRIDGES

13 minutes.

N754931—\$25

PROGRAM 8: SKYSCRAPERS

15 minutes.

N754932—\$25



Exploring the World of Science

Pitsco is a proud sponsor of both Science Olympiad and TSA (Technology Student Association). Pitsco, TSA, and Science Olympiad all have ongoing commitments to getting students involved in learning through relevant and meaningful hands-on activities.

Fax Orders Free
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INNOVATIVE EDUCATION.

STRUCTURE TESTER

The simple, safe and effective method of testing student-engineered bridges and towers. Using a smooth hand-operated pump, students can apply up to 1,200 pounds of force to everything from balsa stick and toothpick structures to craft stick bridges! They can watch the pounds of force gradually build on the digital display. When the structure fails, the max load reading is locked on the display for easy reading.

Teachers will appreciate the convenience and accuracy of the Structure Tester. The ingenious design provides consistent, precise measurements every time. It's safe too—featuring high quality, high-strength construction and a transparent acrylic viewing shield.

Features:

- Quick, convenient, and safe testing of structures
- Versatility to test both bridges and towers
- Brute force (up to 1200 pounds)
- Accurate measurement with a digital readout
- Peak load holding display
- Smooth, easy hand pump operation
- Comes with PC interface - graphs structure tests in real time

N713293—\$1,295



BRIDGE BUILDING MEDALS **PITSCO**

A great way to reward students for superior design and construction of model bridges. 1st, 2nd, and 3rd place medals are 1-1/2" in diameter and feature a pin-on ribbon.

N751752 Gold

N751753 Silver

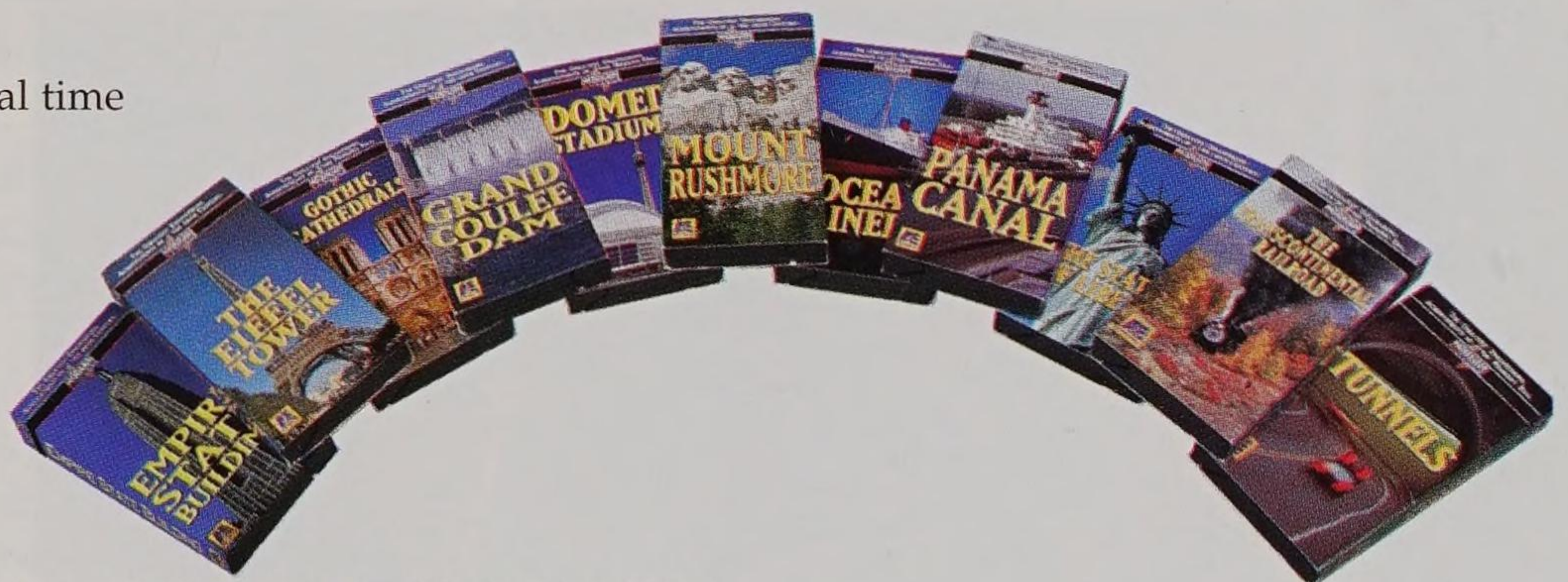
N751754 Bronze

\$7.95 each

STRUCTURE BUILDING **PITSCO** CERTIFICATES

Recognize students who compete in structural competitions!

N754641 (pkg of 25)—\$3.95



MODERN MARVEL VIDEO SERIES

This fascinating video series examines America's most impressive landmarks. These structures represent the greatest engineering achievements of the 20th century as well as a nation's resolve to triumph over adversity. See how their builders overcame unique challenges using problem-solving skills and imaginative construction methods.

Videos are 50 minutes in length.

Viewing Level: Middle School - High School

N715800 Statue of Liberty—\$19.95

N715802 Transcontinental Railroad—\$19.95

N715804 Gothic Cathedrals—\$19.95

N715806 Tunnels—\$19.95

N715805 Domed Stadiums—\$19.95

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N715801 Panama Canal—\$19.95

N715799 Eiffel Tower—\$19.95

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A child
miseducated
is a child lost.
John F.
Kennedy



LEGO DUPLO FARM #779133

New!

97 elements

This farm comes complete with 18 farm animals, six LEGO DUPLO people, a farmhouse, two tractors, a plow, and plenty of fences.

N779133—\$88



LEGO DUPLO FARM ANIMALS #779137

36 elements

Includes 14 animals, farmers, snap-together fencing, and a feeding trough that make this set a great addition to any collection.

N779137—\$30.25



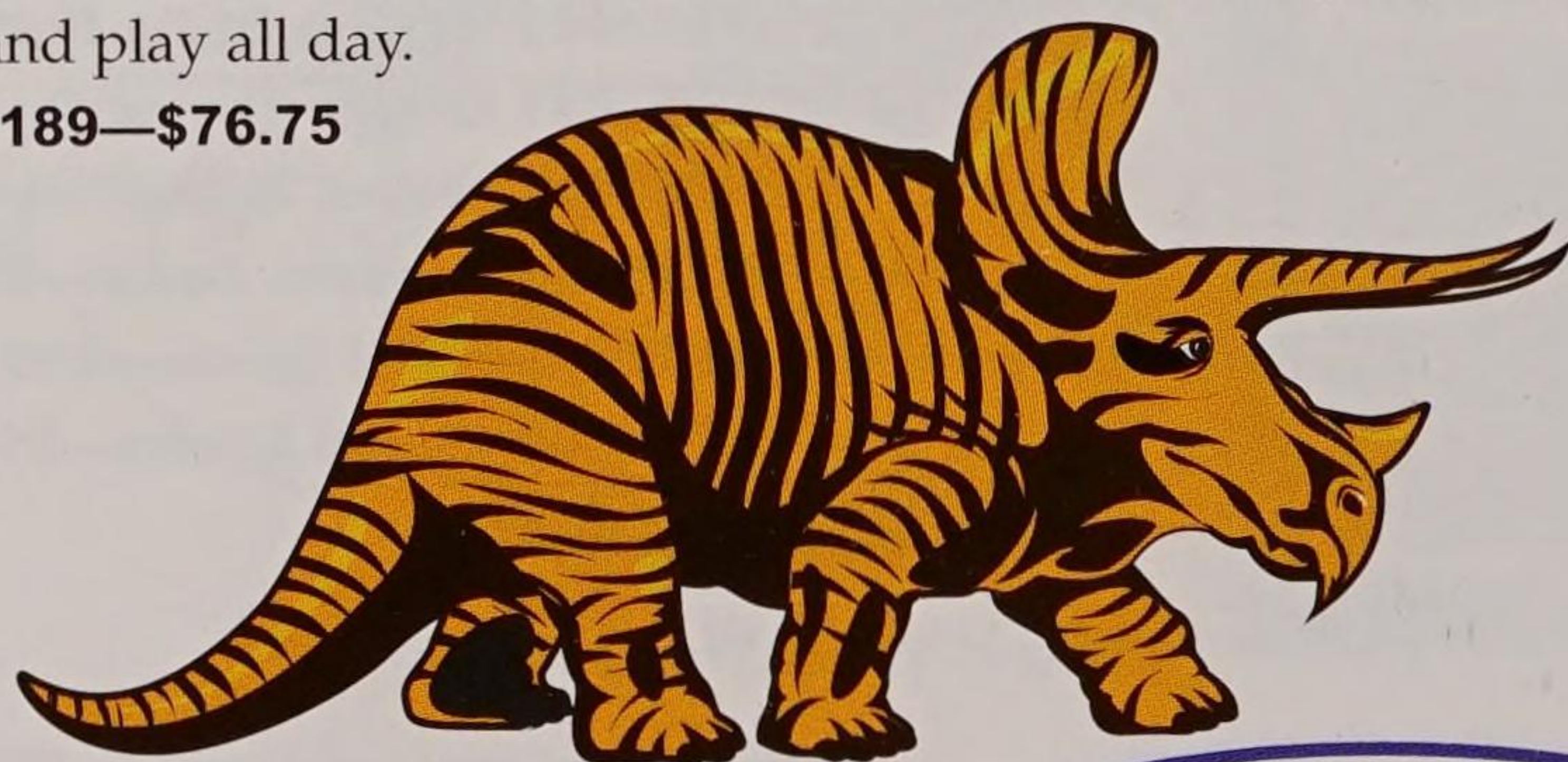
LEGO DUPLO ANIMAL & FUN PARK #779189

New!

113 elements

Monkeys swing from the trees while children ride a merry-go-round in this set which combines zoo animals and an amusement park theme. Includes 13 animals, a slide, a merry-go-round, plenty of decorated and basic bricks, and four LEGO DUPLO people to ride and play all day.

N779189—\$76.75



Fax Orders Free
1-888-534-6784



BONUS DINOSAUR SET #779194

New!

136 elements

Prehistoric adventures await your children as they build with this set, that includes 12 parent and child dinosaurs, six LEGO DUPLO cave people, trees, flowers, campfires, a canoe, two suspension bridges, and three baseplates. Fits in a LEGO dacta Storage Box - sold separately, see page 92.

N779194—\$113.25



LEGO DUPLO DINOSAUR FAMILIES #779196

8 elements

The parent and child dinosaurs are modeled after the Tyrannosaurus Rex, Triceratops, Brachiosaurus, and Pterodactyl. A must for any preschool collection.

N779196—\$20.50



LEGO BASIC FARM #779253 **New!**

591 elements

These special elements can be used to build a fully equipped farm with cows, pigs, chickens, a jolly farmer, and his wife. The set encourages children to develop their cognitive skills as it inspires them to construct their own imaginative models.

N779253—\$45.25



LEGO DUPLO **New!** ZOO ANIMALS #779192

16 elements

Your children will make fast friends with these 16 baby animals, including penguins, giraffes, elephants, hippos, whales, lion cubs, a panther cub, a polar bear, and a panda.

N779192—\$25.25

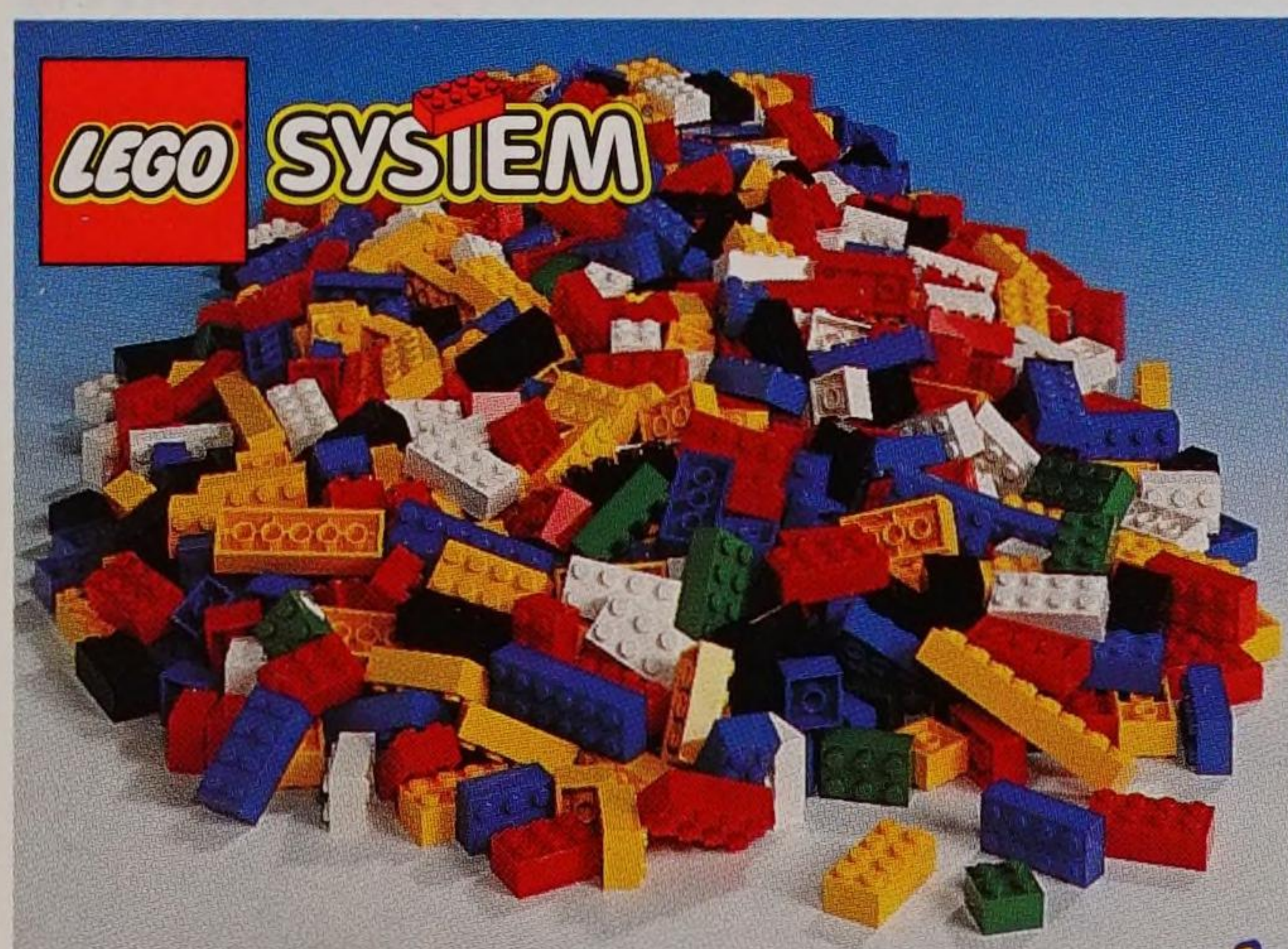


LEGO BASIC ZOO #779250 **New!**

986 elements

Terrific! An entire zoo with possibilities for constructing funny fantasy animals or animals from the natural world. Children have everything they need to reproduce what they see and can create their own imaginative models.

N779250—\$64.75



LEGO BASIC JUST BRICKS #779251 **New!**

576 elements

Add these bricks to your existing collection and be sure not to run out. The set includes bricks in six different colors and sizes.

N779251—\$23.75



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PITSCO **LEGO** **dacta**
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Oh! this learning, what a thing it is.
Shakespeare



**BONUS LEGO BASIC TOWN
SPECIAL VALUE #779287**

New!

2,476 elements

Piles of elements to build a fantastic town environment with pretty houses, a gas station, a cafe, even a racetrack with lots of fancy cars or a town built with everything a child could dream of; ice-cream booth at every corner, perhaps? Ages 5 and up.

N779287—\$106.25



LEGO SYSTEM COMMUNITY WORKERS #779293

New!

178 elements

Every LEGO town needs firefighters, police officers, ambulance paramedics, and construction workers with their tools. Thirty LEGO figures and six cycles and motorbikes can be built with the elements included in this set.

N779293—\$32.50



*Fax Orders Free
1-888-534-6784*



New!

LEGO DACTA FLIP-TOP PLAYTABLE

Let your students unleash their creativity! The Flip-Top Playtable allows them to build with regular LEGO bricks or DUPLO bricks. No tools are necessary to flip the table top. Features durable hardwood construction and convenient table height for standing, kneeling, or sitting. Table measures 27" x 27" x 20" high. Storage bin sold separately.

LARGE RED FLIP-TOP TABLE

N202920—\$288.50

LARGE GREEN FLIP-TOP TABLE

N202921—\$288.50

SMALL GREEN FLIP-TOP TABLE (29.25" x 15.5" x 20" H)

N202931—\$231.75

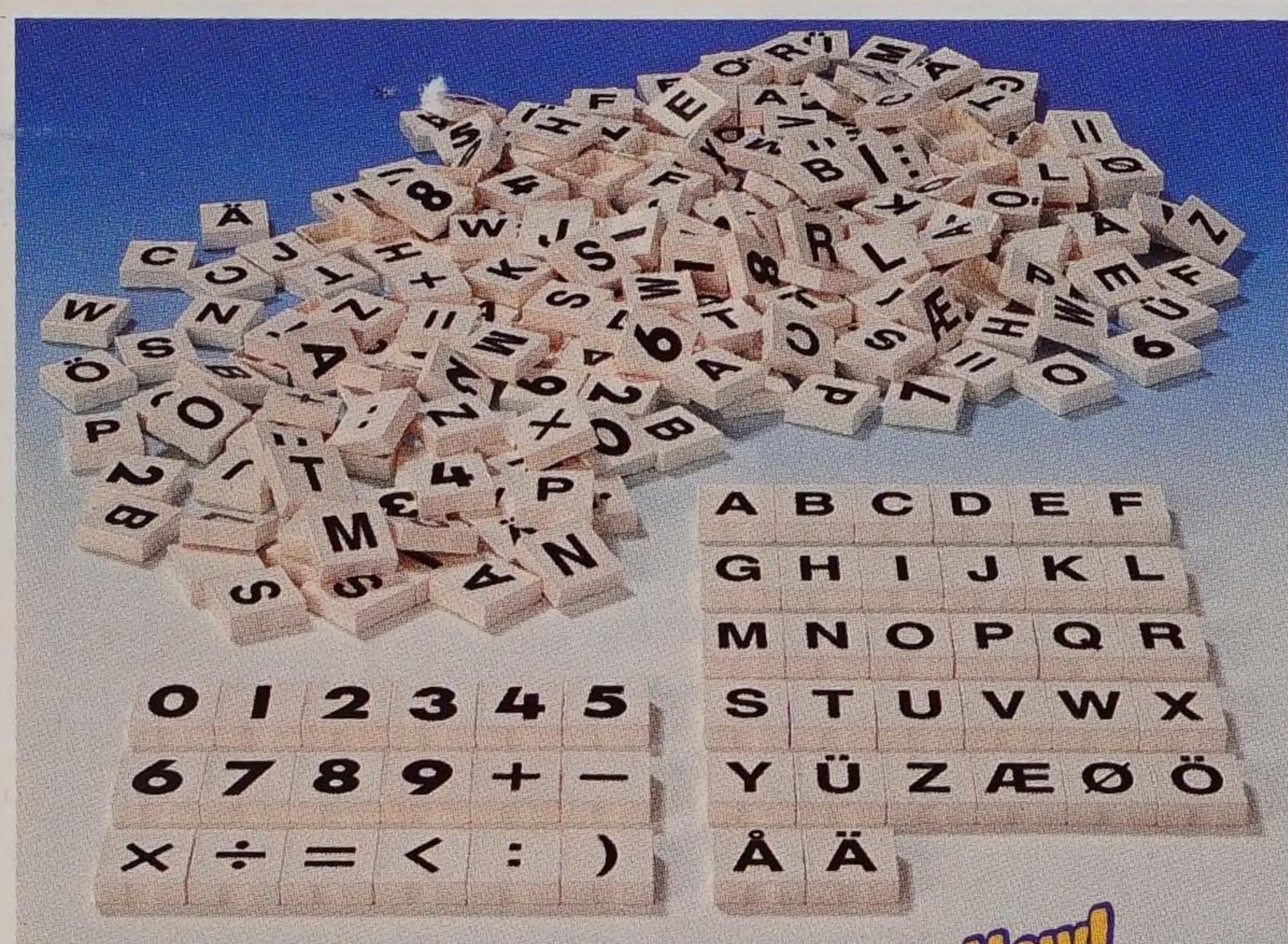
PLAYTABLE STORAGE BIN (17" x 17" x 7.5")

N779920 —\$14

LARGE LAMINATED TABLE COVER

N202011—\$77.25





LEGO NUMBERS & LETTERS #779816

What a great idea! These number and letter blocks will connect to DUPLO building plates and bricks. There 276 elements—210 capital letters (including many international symbols) and 66 numbers and math signs.

N779816—\$42.75



DUPLO BASIC BULK #779815

Just imagine what your students could build with this big DUPLO set! There are 92 elements: 71 DUPLO bricks (2x2/2x4), 2 building plates, 2 wagons, and 17 assorted special elements.

N779815—\$25.75



PLAY TABLE #779806

New!

This table is the perfect place for children to explore, build and create using LEGO DUPLO bricks! The table is durable and safe (no small parts or sharp edges) and best of all, it includes everything kids need to start creating: The LEGO DUPLO Basic Bulk Set #779815 is included with the table. The net container in the center provides brick storage during and after play time.

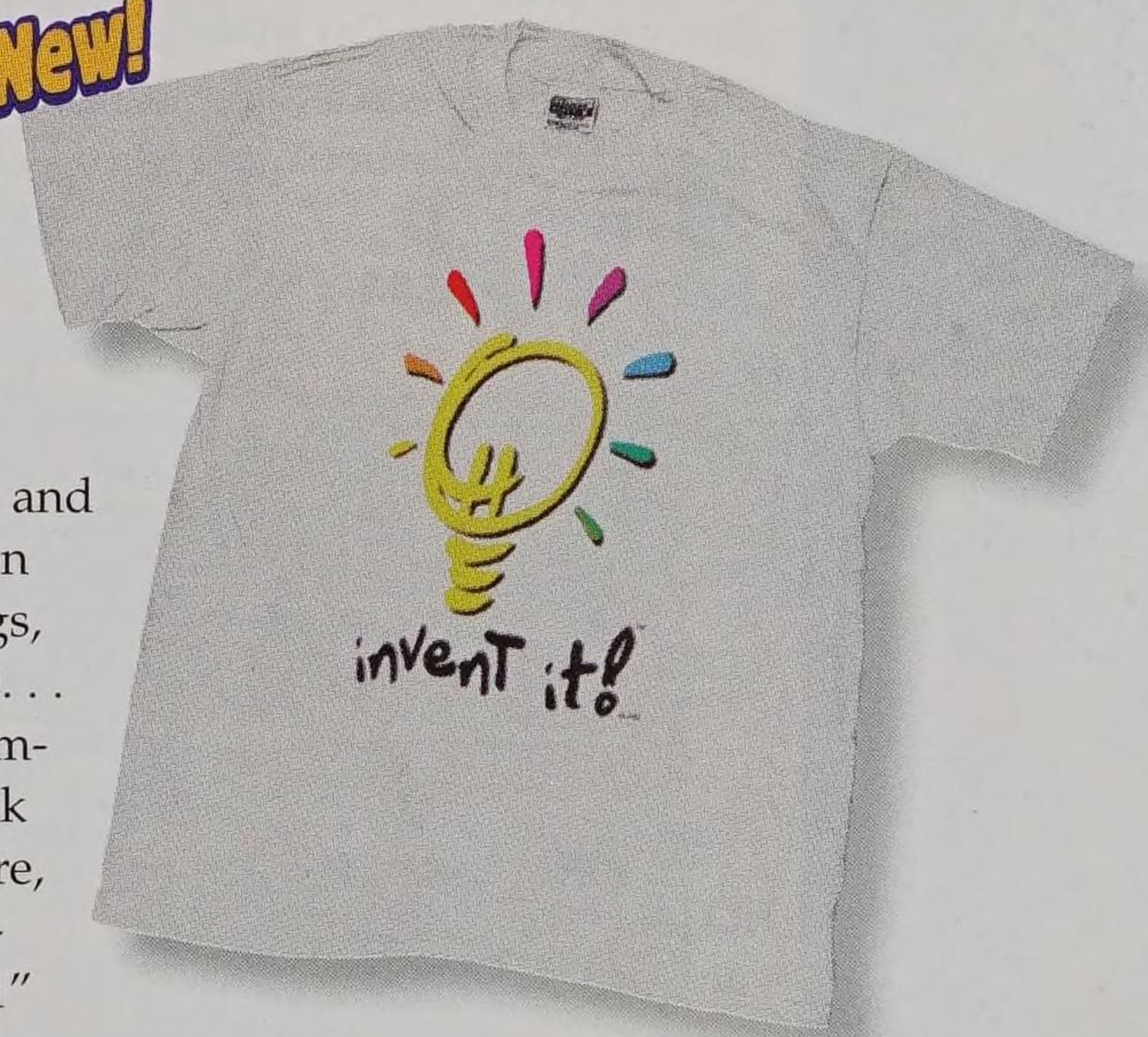
N779806—\$524.75

INVENT IT! IRON-ON TRANSFERS

New!

Use your computer and ink-jet printer to make fantastic creations and wear them! Just place the Invent It! transfers in your ink-jet printer's feeder tray and print your design. Then iron them onto T-shirts, tote bags, aprons, sweatshirts, jerseys. . . whatever! It's incredibly simple and fun. Requires an ink jet printer, graphics software, and a smooth formica ironing surface. Ten 8-1/2" x 11" transfer sheets included.

N756063—\$19.95



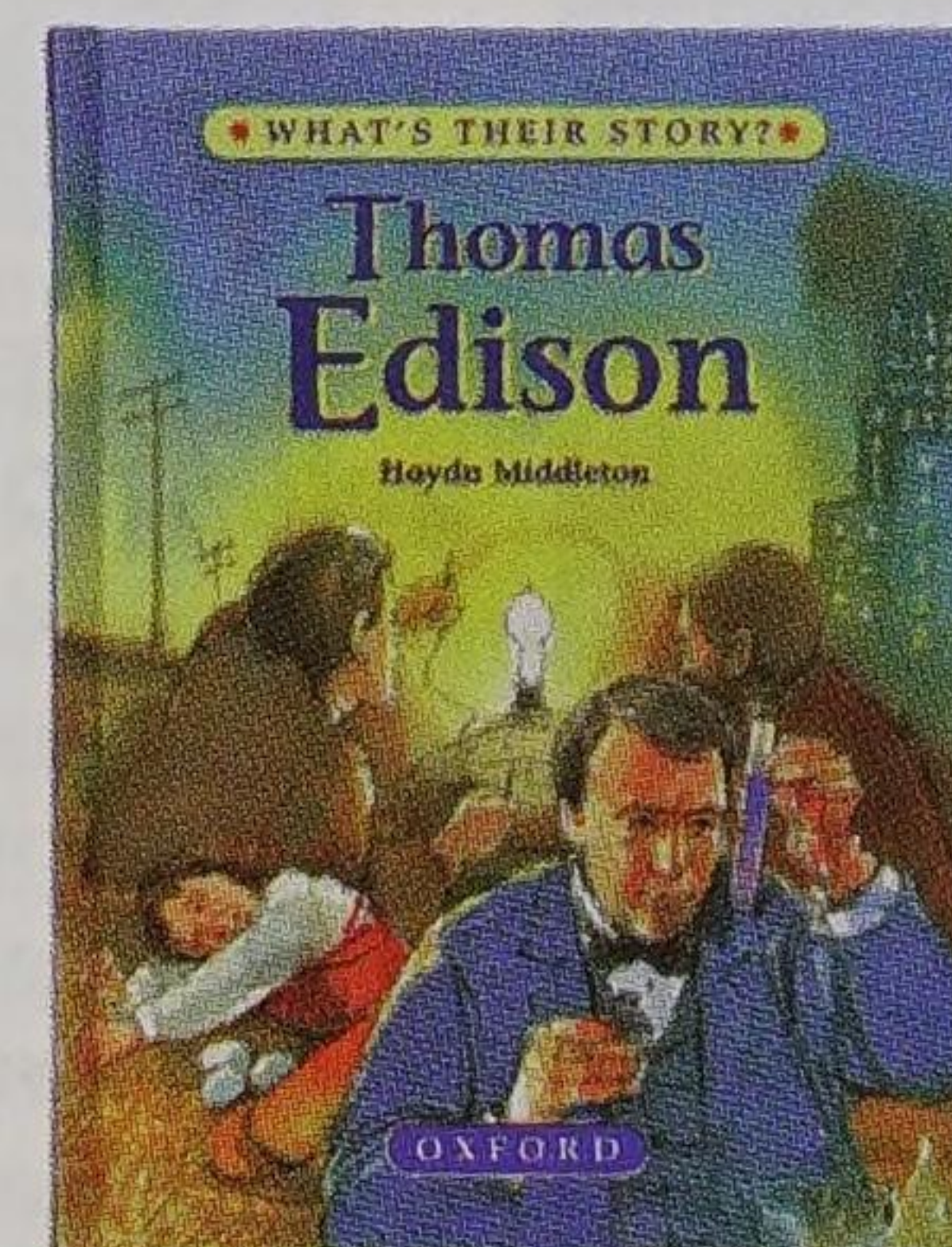
WHAT'S THEIR STORY? THOMAS EDISON

New!

Here's an exciting, fully-illustrated biography that will hold the attention of young readers. More than any other individual, Thomas Edison was responsible for introducing the modern age of electricity. Besides pioneering the first commercial electric light and power system, he also invented the phonograph, the microphone, and an early movie camera. This gripping story is one of determination, disappointment, and triumph. Hardback, 30 pages.

Reading Level: Intermediate - Middle School

N756080—\$14



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Our greatest glory consists not in never falling, but in rising every time we fall.

Oliver Goldsmith



CRAZY ACTION CONTRAPTIONS **New!**

A LEGO inventions book! With this zany project book and 60-piece set, kids are certain to have a blast inventing, tinkering and watching in amazement as their contraptions jump into action.

Using the Lego Technic elements, they'll assemble 5 wacky and fun devices that really work—the Never-Look-Back-Machine, Coat Hanger Daredevil, Skittle Tops, 9-Foot Rubber Band Racer, Balloon-Powered Rocket Car. With a few additional LEGO elements, they can assemble 5 more contraptions. The kid-friendly book has 64 full-color pages. Ages 7 and up.

N756183—\$19.95



From inspiration to prototype, everything you need to know. Featuring easy at-home projects to start now, plus 35 Great American Invention Stories.

Paperback, 207 pages.

Reading Level: Intermediate - Middle School

N753129—\$9.95

INVENTION

Steven Caney

This book explains each step of the process of being an inventor.

Invention uniquely discusses the fundamentals of setting up a workshop, building models of the invention, creating a name for it, plus record keeping, planning, packaging, and marketing. This book leads stu-



INVENTOR'S WORKSHOP

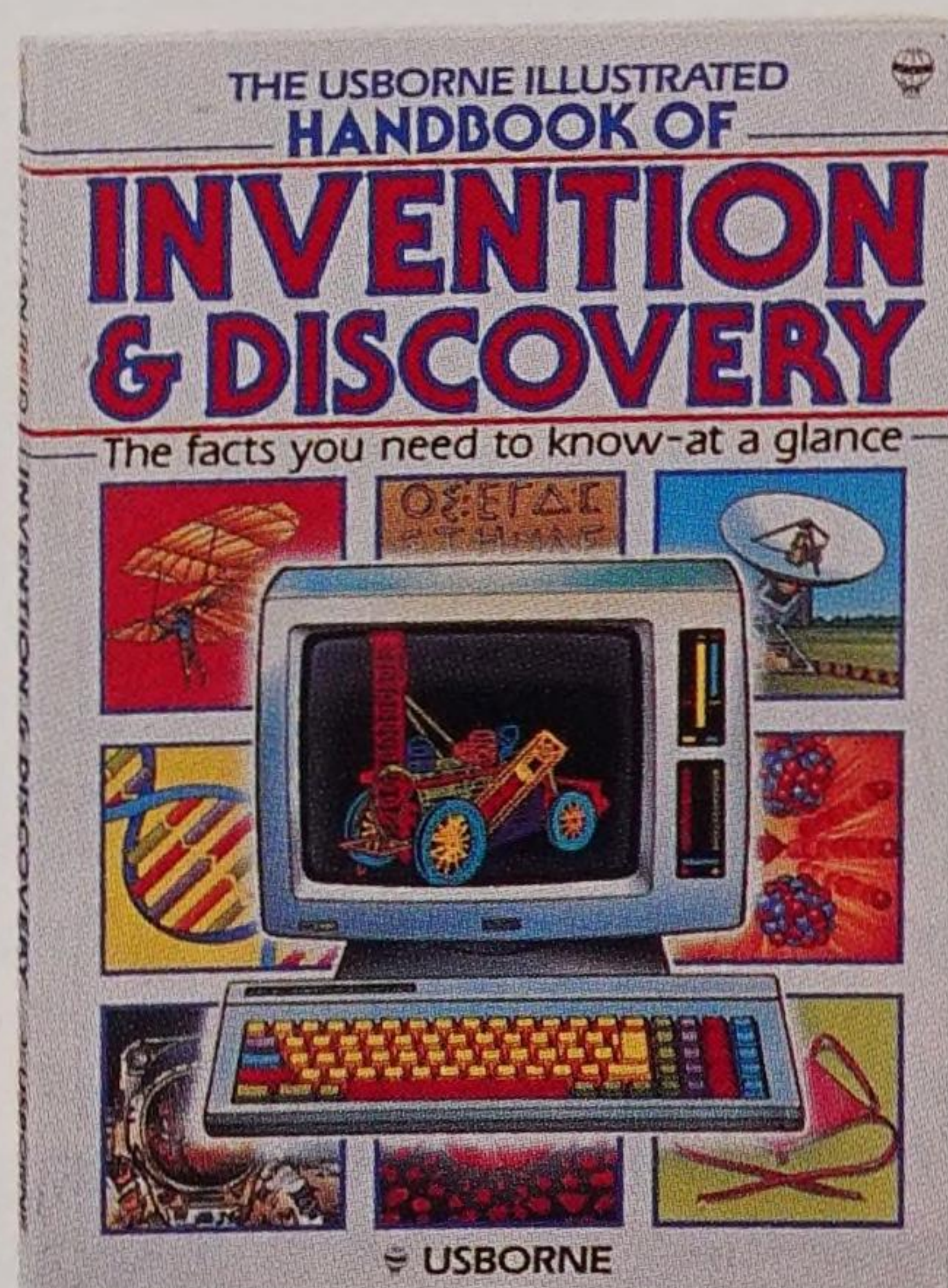
Alan J. McCormack

Reproducible illustrated directions for more than 25 intriguing projects. "Sidetrips" following each project challenge students to apply their inventiveness.

Paperback, 84 pages.

Reading Level: Grades 4 through 9.

N751238—\$11.95



USBORNE INVENTION & DISCOVERY

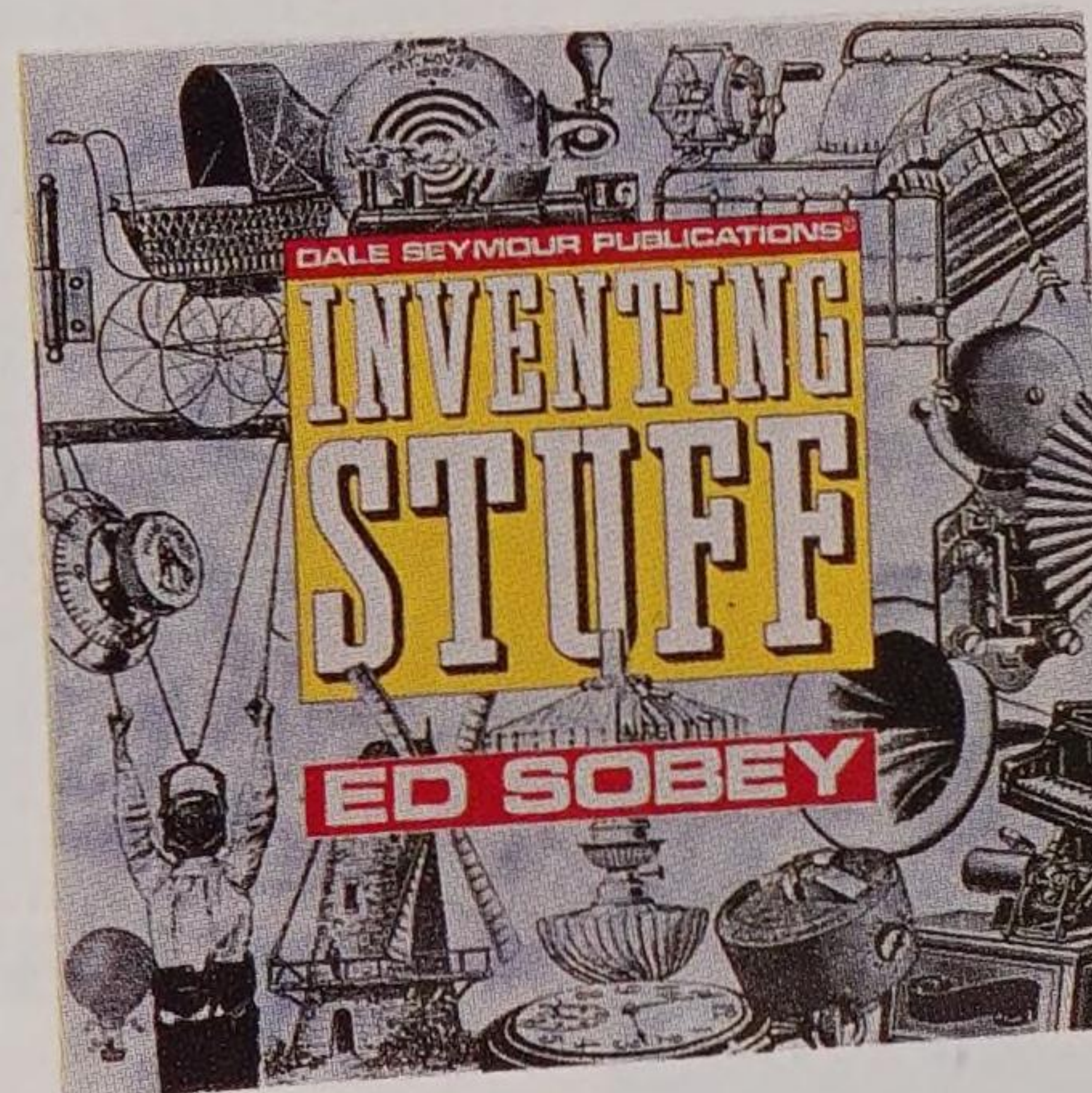
Struan Reid

An excellent classroom reference book that presents the facts you need to know at a glance. With hundreds of colorful illustrations and concise informative text, *Invention & Discovery* chronicles the history and development of the most important innovations and discoveries of our time.

Paperback, 128 pages.

Reading Level: Middle School - High School

N751493—\$9.95



INVENTING STUFF

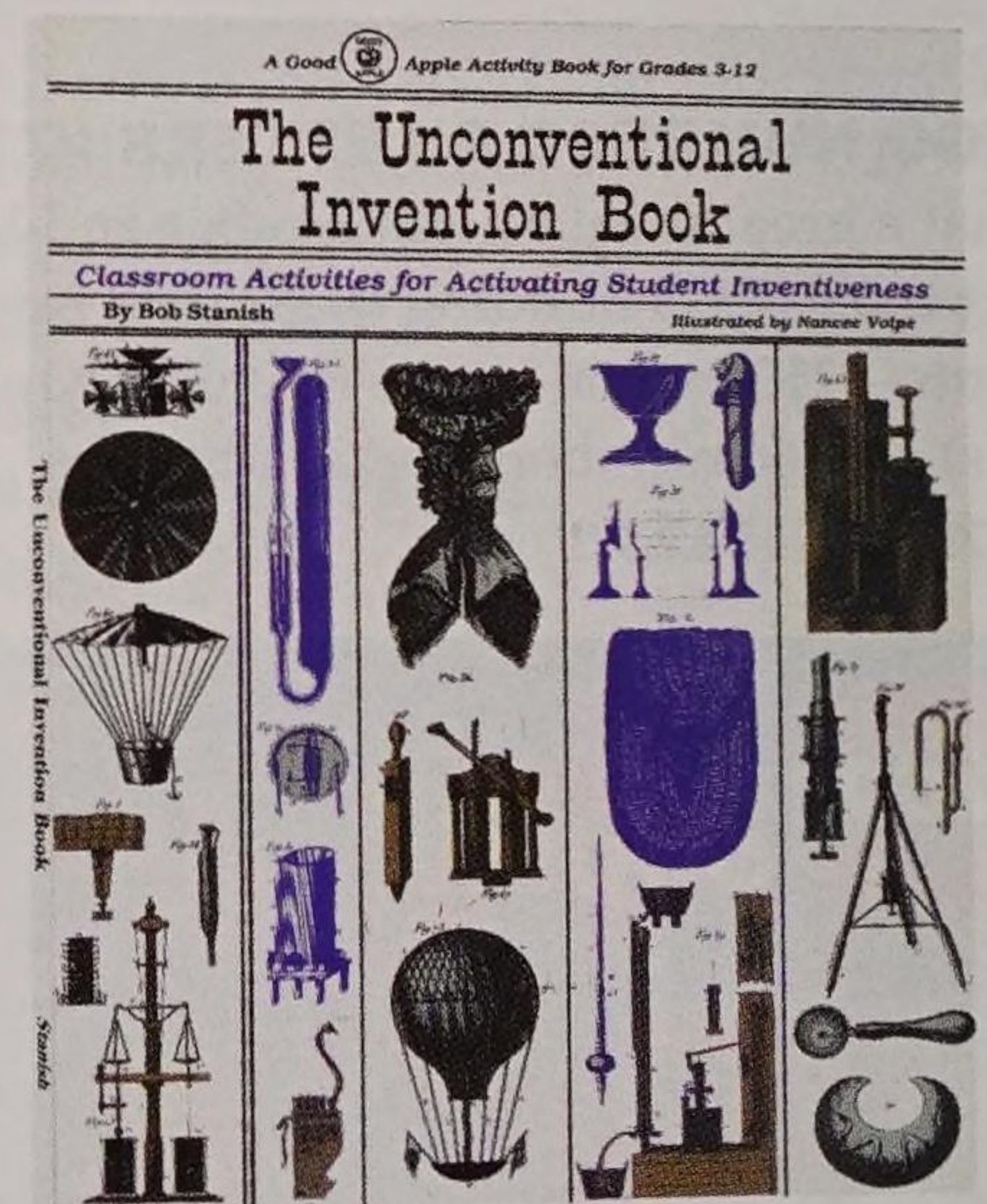
Ed Sobey

Get your idea factory rolling with *Inventing Stuff*! This engaging book gives you effective techniques, such as inventing backwards and finding new uses for things. It also shows you how to find and solve problems and supplies thought-provoking facts about inventors and inventions.

Paperback, 79 pages.

Reading Level: Middle School - High School

N754445—\$11.95



THE UNCONVENTIONAL INVENTION BOOK

Bob Stanish

Provides thorough and easy-to-follow teacher's guides and offers hundreds of suggestions about how to accommodate inventive and creative thinking with classroom projects. Reproducible worksheets coach reversing, designing, redesigning, finding new uses, improving, and invention.

Paperback, 121 pages.

Reading Level: Grades 3 - 12.

N751239—\$12.95

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EXCLUSIVE

INVENTION EXPLORE-A-PAK

If your students can dream it up, they can invent it with the Invention Explore-A-Pak! We've included a wide variety of materials—rubber bands, straws, basswood, dowel rods, skill sticks, balloons, wheels, glue, plastic spools, and more. Students must supply the imagination. For a class of 25.

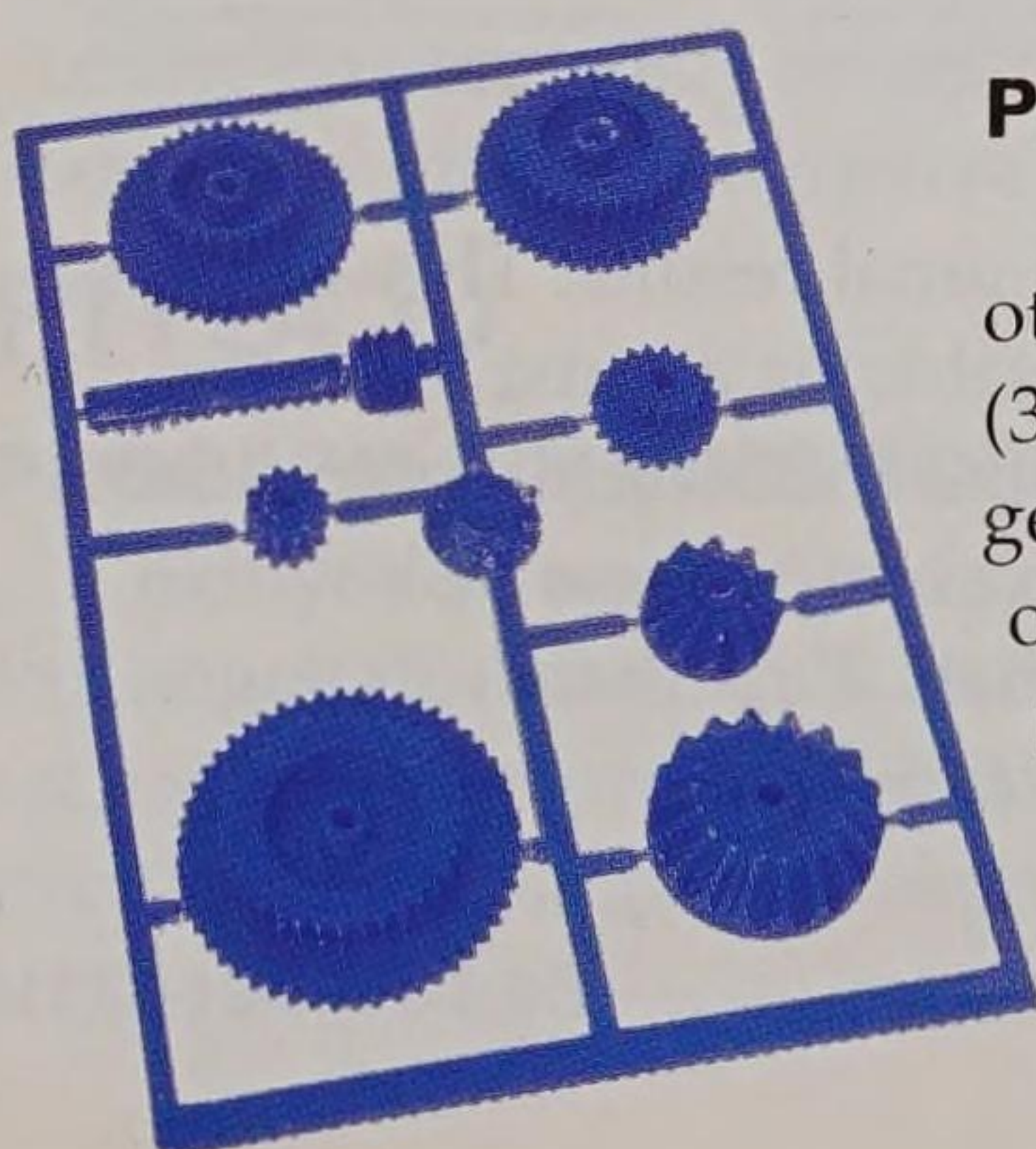
N990010—\$80



PITSCO TOOL SET **PITSCO** **EXCLUSIVE**

Everyone knows it's important to have the right tool for the job. Right, Al? Well, it's hard to find a job that this tool set doesn't cover. It includes a 7 oz. claw hammer, hand drill & drill bits, screw drivers (regular & Phillips), 3 C-clamps, saw & miter box, try square and a pair of wire strippers/cutters. Includes a self-standing storage board with a carry handle.

N755051—\$150



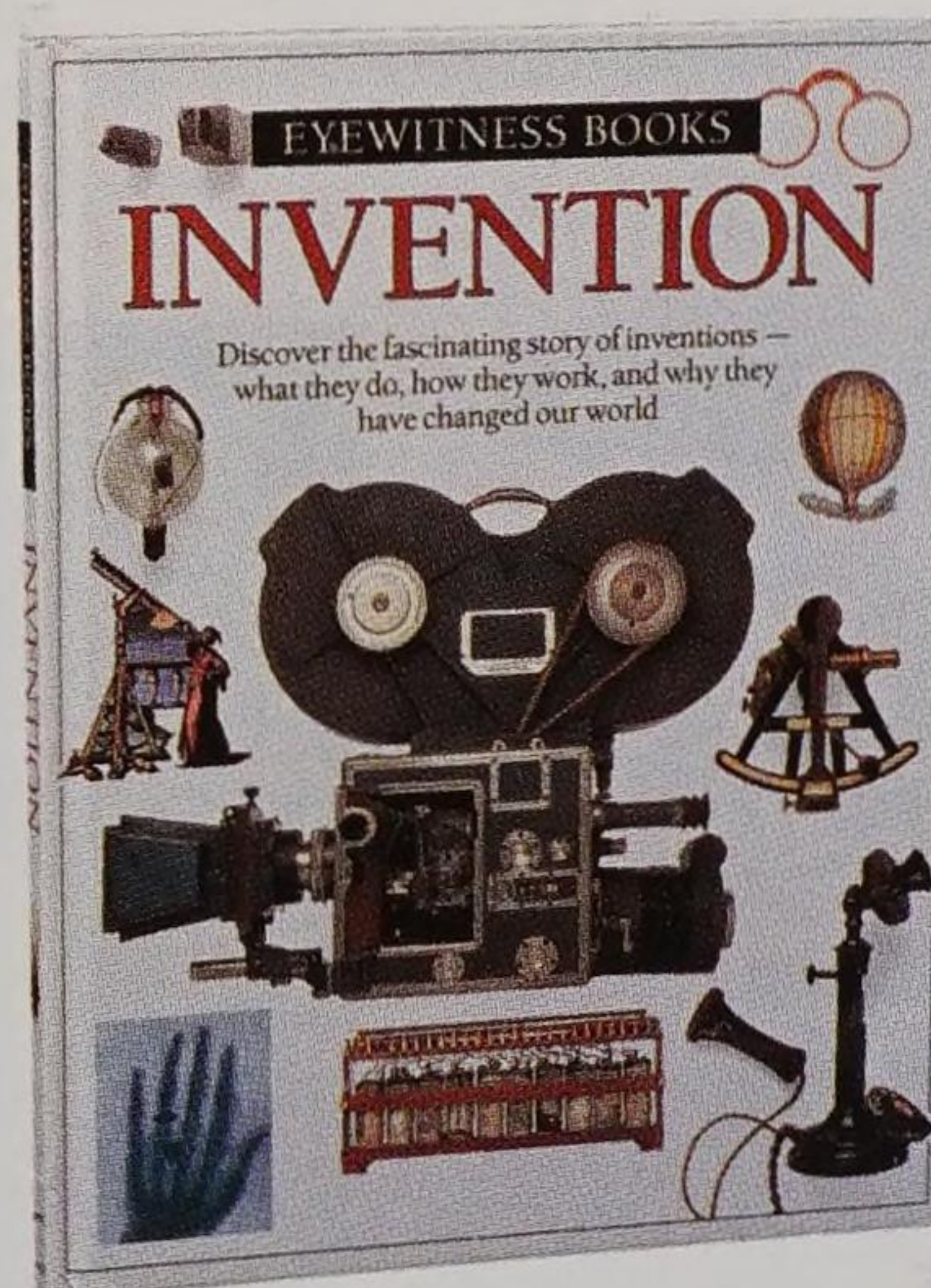
PLASTIC GEARS **PITSCO**

Use with your inventions, vehicles, and other moving models. Gear hole is 1/8" (3mm) and will fit on 1/8" axles. The smallest gear has a hole (1/16" I.D.) that fits the shaft of our mini-motors.

N714841—\$5

10 for \$45

100 for \$405



EYEWITNESS INVENTION

Lionel Bender

This book will captivate and motivate students with creative minds! Lionel Bender presents excellent illustrations to challenge the scientists of the future. This volume of photographs and text explores such inventions as the wheel, gears, levers, clocks, telephones, and rocket engines.

Hardback, 64 pages.

Reading Level: Intermediate - Middle School

N752164—\$19



HOW TO BE AN INVENTOR

New!

Allow your students to put on an inventor's thinking cap to create gadgets, games, tools, toys and other amazing innovations. In addition to being exposed to what every inventor should know, there are stories about unsung women inventors, successful inventing teams, and dozens of creations including the bicycle, earmuffs, motion pictures, the Frisbee, Superman, radio, the slinky, miniature golf, and much more.

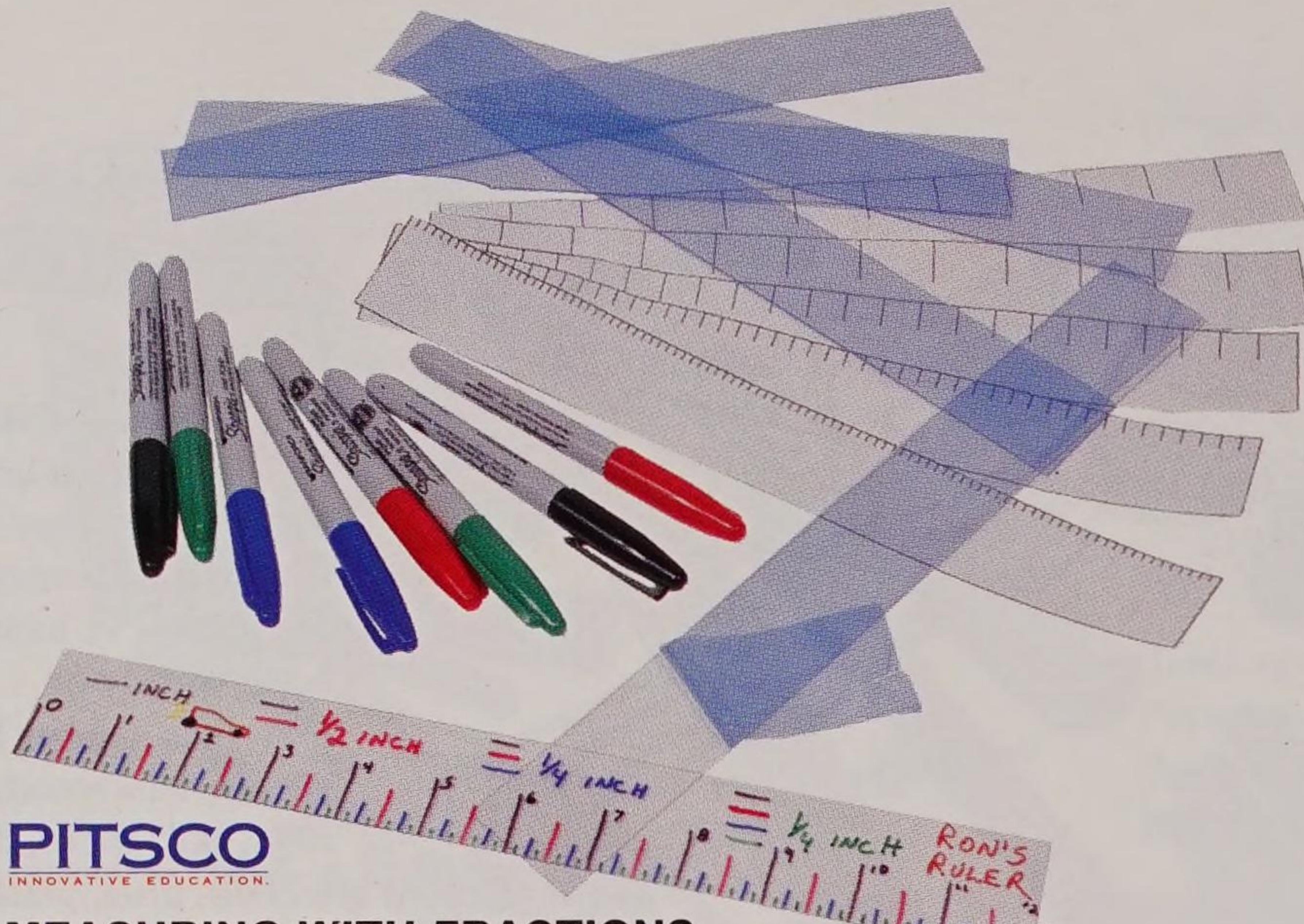
Paperback, 80 pages. Reading Level: Intermediate

N756077—\$10.95

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1-800-362-4308

PITSCO **LEGO** **dacta**
PARTNERS IN INNOVATIVE EDUCATION

The people
who influence
you are
people who
believe in
you.
Henry
Drummond



PITSCO
INNOVATIVE EDUCATION.

MEASURING WITH FRACTIONS EXPLORE-A-PAK

EXCLUSIVE

Students learn how to measure, and they learn about fractions as they make their own rulers! It's an activity that measures long on educational value and tall on fun. The pak provides everything necessary — permanent markers, plastic material, templates, and student worksheets for a class of 25.

N990008—\$59

PITSCO
INNOVATIVE EDUCATION.

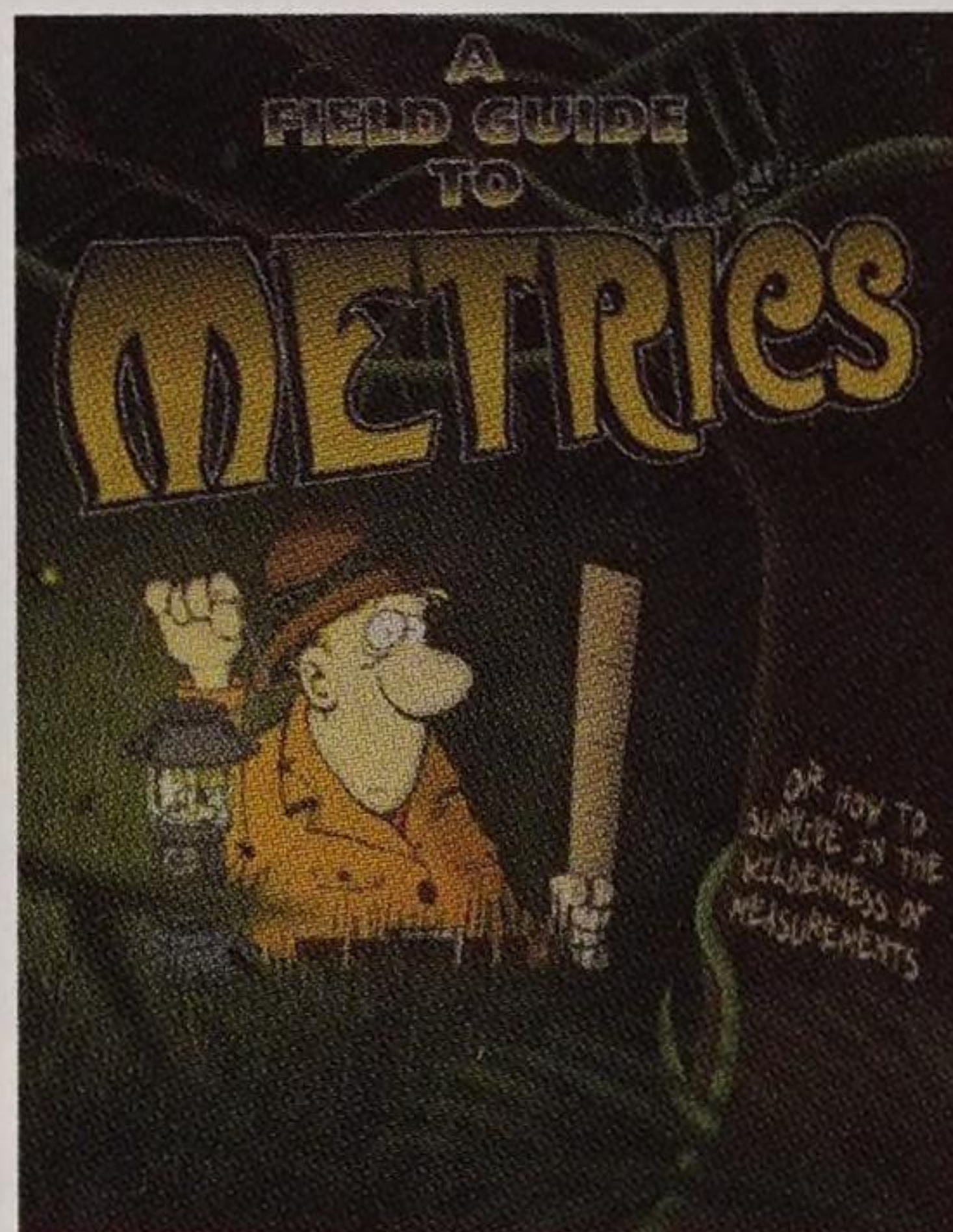
FIELD GUIDE TO METRICS

EXCLUSIVE

Suzanne Arruda

This step-by-step field guide literally walks students through every centimeter of understanding the metric system. Suzanne Arruda, teacher of this subject, has written and tested this book. Her fun style of writing and clever illustrations make this guide unique. Students will enjoy this book and will know all about metrics when they finish.

N990009—\$5.95



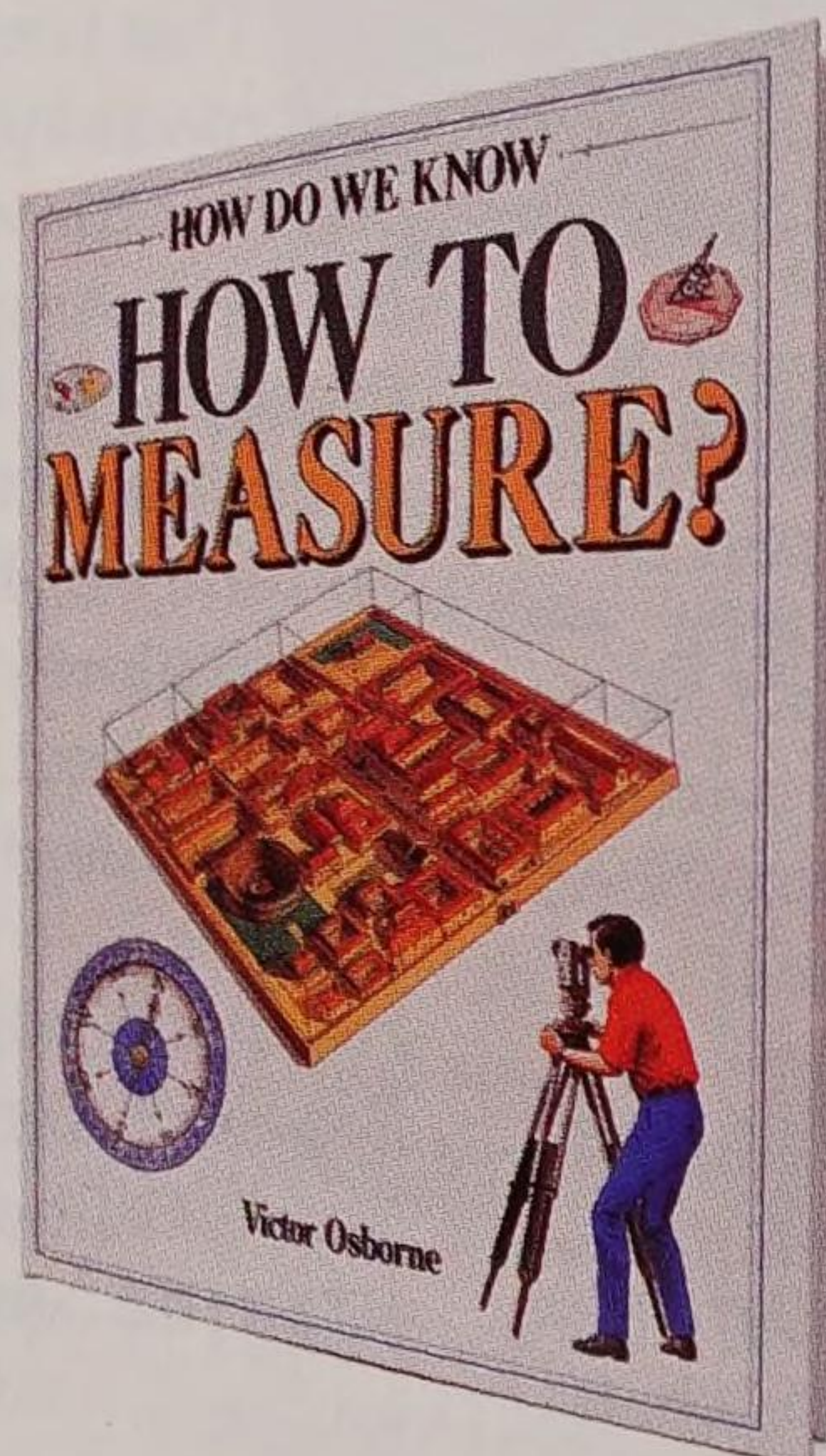
HOW DO WE KNOW HOW TO MEASURE?

Victor Osborne

This book looks at how certain measurements came into use, such as the fathom, yard, acre, meter, and other measurements of all types. Learn how measurements affected the building of the Great Pyramid, ancient trade, measurement of sound, and how the ocean depths are measured. Includes fascinating, full-color illustrations and information about the tallest man, the tallest building, the heaviest man, and more. Hardback, 41 pages.

Reading Level: Intermediate - Middle School.

N753119—\$23



PITSCO
INNOVATIVE EDUCATION.

EXCLUSIVE

SCIENCE AND TECHNOLOGY WHEEL BUNDLE – EXPLORE IT! BUNDLE

An exciting computer-based curriculum for your Macintosh. Students are guided through an enlightening computer tour, then are engaged in fun, hands-on activities.

The exploration of aeronautics, robotics, and simple machines is the focus of this bundle. This curriculum supports activities using Whitewings, the Programmable Icon software, and Pitsco's RatPak™. All bundles require a Macintosh with Hypercard 2.1 or later.

A hard drive is recommended.

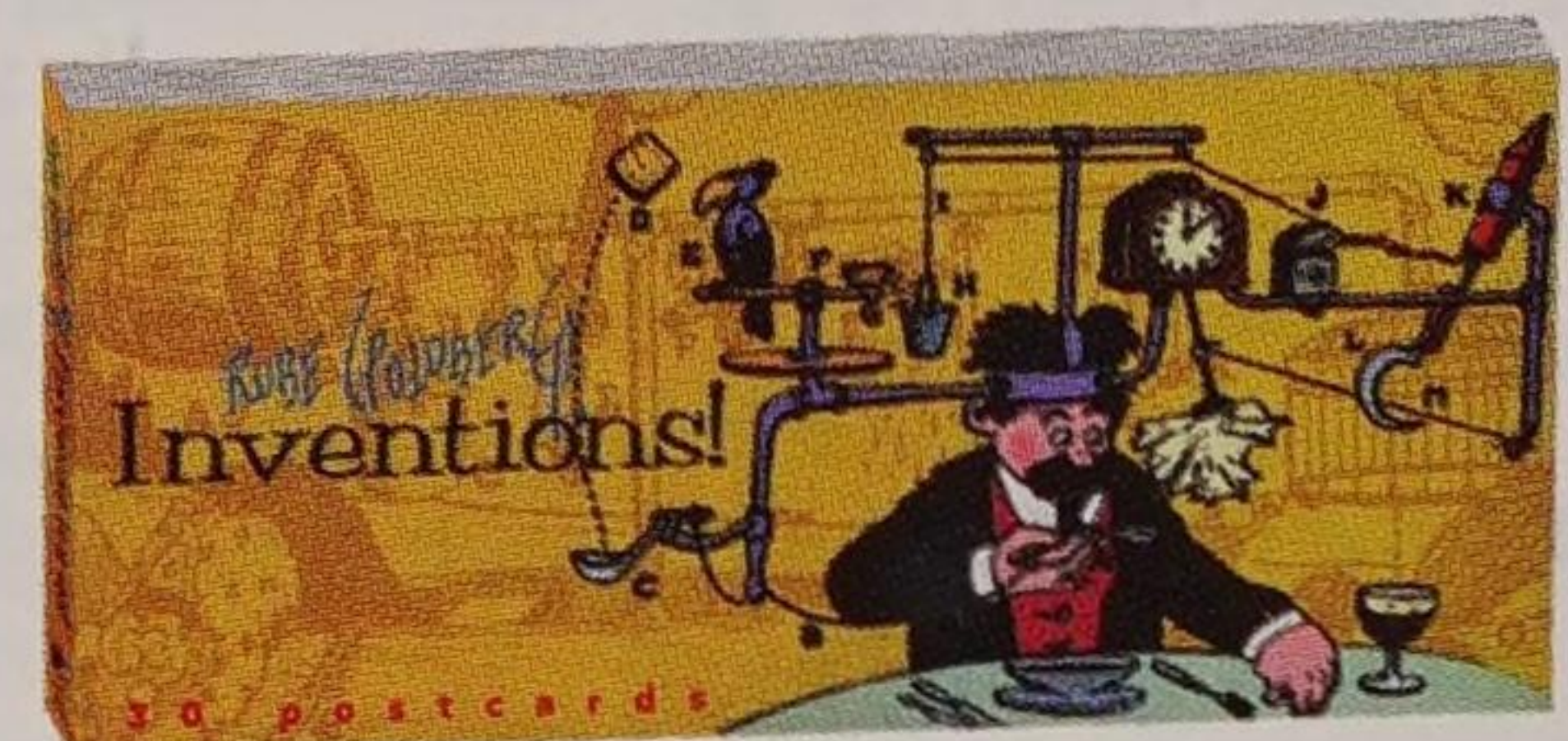
N990018—\$120

PITSCO
INNOVATIVE EDUCATION.

ACHIEVE IT! BUNDLE

Students investigate technology concepts with a computer-based tour then complete exciting hands-on activities to reinforce learning. Topics include MagLev, Electronics, and Kites. Students experience soldering, learn about MagLev transportation, and enjoy the challenge of building an "eddy" kite! Requires a Macintosh computer with Hypercard 2.1 or later.

N990020—\$120



New!

INVENTIONS

Rube Goldberg, through his elaborate and ridiculous devices, has become synonymous with any maximum effort to achieve minimal results. This 30-postcard collection (each mailable) is a must for every Goldberg fan. Each card has an illustration and the instructions for completing a mundane task with a new and outrageous method. Paperback, 30 pages.
Reading Level: Intermediate to Adult

N756120—\$10.95

Fax Orders Free
1-888-534-6784

PITSCO FOLD & RACE RAMP

INNOVATIVE EDUCATION

EXCLUSIVE

Fold it up and start racing within minutes!
The Pitsco Fold & Race Ramp is designed specifically for the elementary classroom needs.

Economical, easy to store, and fun to use.

Use the ramp to test and race Fold & Roll Cars, Balloon Cars, and other rolling models in your classroom.

N990022—\$7.95



ChallengePak



CHALLENGEPAK

PITSCO INNOVATIVE EDUCATION

The challenge is: what *can't* you use this PowerPak for? Its got mousetraps, wheels, axles, dowel rods, wood strips, rubber bands, balloons, wheels, and much more! Use for a variety of problem solving challenges. The possibilities are endless.

(Egg carton not included.)

For a class of 25 students.

N751385—\$99

PITSCO INNOVATIVE EDUCATION

EXCLUSIVE

BALLOON CAR EXPLORE-A-PAK

Your students will feel inflated after they participate in this fun and challenging balloon car activity. Students build their own balloon-powered vehicles, ranging from the simple (cardstock templates are provided for the vehicle bodies) to the outrageous (students can dream up their own wild designs)!

If desired, the cars can be raced against one another in a classroom showdown. The Balloon Car Explore-A-Pak includes a teacher guide, balloons, axles, wheels, templates, and other needed materials.

For a class of 50 students.

N990011—\$69

Problem solving like a scientist.

BY THE BOOK...

WHAT IT REALLY MEANS...

Problem
• Develop a question to be researched and answered.
• The question asks what you want to know.

What's the problem?!
• My stomach's rumbling, so what's going on?

Hypothesis
• Formulate a statement, based on prior knowledge, which predicts the outcome of experiments conducted to answer the "problem" question.

What am I gonna do about it?!
• I think I'm hungry. Maybe if I ate a pizza I wouldn't be hungry.

Materials
• List all the materials needed.

What do I need?
Pizza Recipe: Cheese
Pepperoni
Sausage
Tortilla Paste
Dried Dough

Procedure
• Describe a plan for collecting information to answer the "problem" question in a step-by-step form.

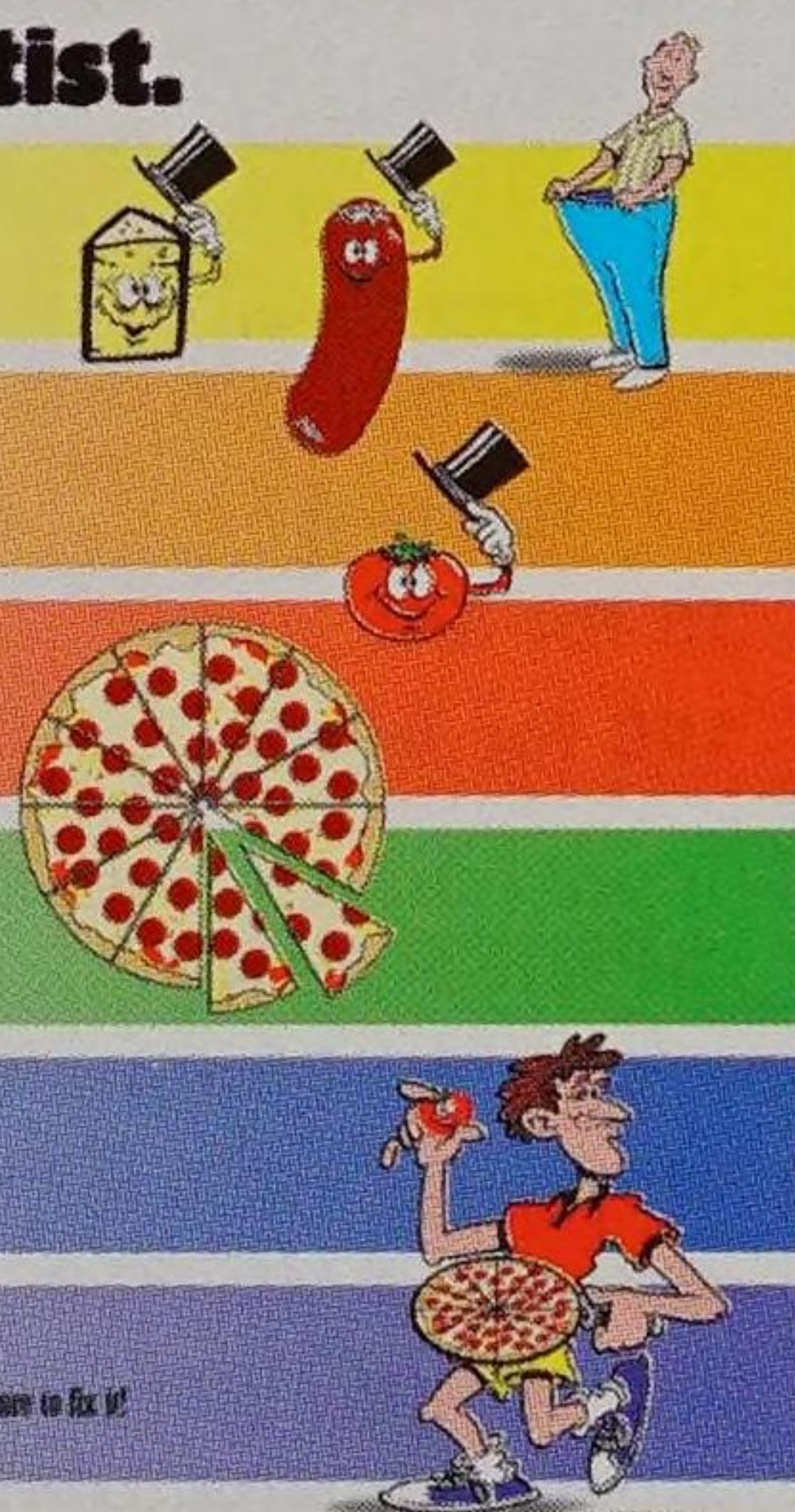
How do I know if it works?!
1. Follow recipe & prepare materials for baking.
2. Bake pizza in oven for allotted time.
3. Eat pizza and observe hunger status.

Experiment
• Conduct experiments by following the procedure plan.
• Record what measurements and data were collected.

What are we waiting for?!
Let's start cookin' already!
• Follow the recipe above
• Measure the results (are you still hungry?)

Conclusion
• Answer the "problem" question and explain the meaning of the experiment results by using written or graphic communication like charts, tables and pictures.

So what happened?!
• Well, what do you think?
I was hungry and now I'm satisfied! In the future if I am hungry, I'll follow the procedure to fix it!
Make a chart to show your hunger status before and after the pizza.



PITSCO INNOVATIVE EDUCATION

PROBLEM SOLVING POSTER

New!

EXCLUSIVE

Bet you never knew pizza could be part of the scientific problem solving process. This clever chart clearly and concisely describes each step of the process, and relates it to something with which every student is familiar-eating a pizza! 11" x 17"

N756194—\$4.95

Call Us Toll Free
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TECHNOLOGY RESOURCE SET #979609

1,733 elements

This set is an excellent resource set for special LEGO projects small and large. It's perfect for teachers who want to create their own open-ended design challenges! Students can design and invent solutions to solve problems using this set. It includes a 9-volt motor and battery box, cam wheels, axle extenders, crane hook, wheels, rack and pinion gears and much more. The Technology Resource Set is compatible with all other LEGO Technic materials.

N979609—\$222.75

PITSCO INNOVATIVE EDUCATION
LEGO dacta
PARTNERS IN INNOVATIVE EDUCATION

From the very beginning of his education, the child should experience the joy of discovery. Alfred North Whitehead

PITSCO
INNOVATIVE EDUCATION

TEACHER DEMO KIT

This kit is designed for the teacher to experiment with different variables after making a basic mousetrap vehicle. The kit includes the same types of basic materials as found in the introductory kit, plus other materials to allow you to explore different options for developing mechanical advantage. The demo kit includes: CD-ROM disks, plastic wheels (2 sizes), mouse-traps, different length lever arms, spider wire, string, brass tubing, washers, steel axles, delrin axles, glue, balsa wood, rubber bands, and a copy of Mousetrap Cars: The Secrets to Success—Teacher Edition.

N754973—\$65



LITE FLITE WHEELS

Use these lightweight wheels for a variety of vehicle applications. Rubber tire material is firm for low rolling resistance, yet provides excellent traction. Hubs will accept 3mm or 1/8" axles or can be drilled for axles up to 3/16" in diameter. Wheels available in 2", 3", 4", and 6" diameters. 2 per pkg.

N754447 (2" wheel)—\$3.75

N754449 (4" wheel)—\$8.95

N754448 (3" wheel)—\$4.75

N754450 (6" wheel)—\$16.95



CARD WHEELS

These wheels are great for various vehicles, including mousetrap cars and paper cars. Made of sturdy card stock material, they feature low rolling resistance. Pack includes 504 wheels each of 1-1/2" and 2-1/2" diameters. ID- 3/16"

N755035—\$25

N751945 Hardwood Dowel (36" x 3/16")—\$23

100 for \$21

Fax Orders Free
1-888-534-6784



PLASTIC GEARS

PITSCO
INNOVATIVE EDUCATION

Use with your inventions, vehicles, and other moving models. Gear hole is 1/8" (3mm) and will fit on 1/8" axles. The smallest gear has a hole (1/16" I.D.) that fits the shaft of our mini-motors.

N714841—\$5

10 for \$45

100 for \$405

SPIDERWIRE

A must for mousetrap vehicles, it is soft as silk, has very little stretch, and yet as strong as steel. Allows you to have great strength with an ultra small diameter. Use Spiderwire to put a spin on projects that you can really get caught up in! 150 yds., 20 lb. strength, 6 lb. dia. test.

N755021—\$32

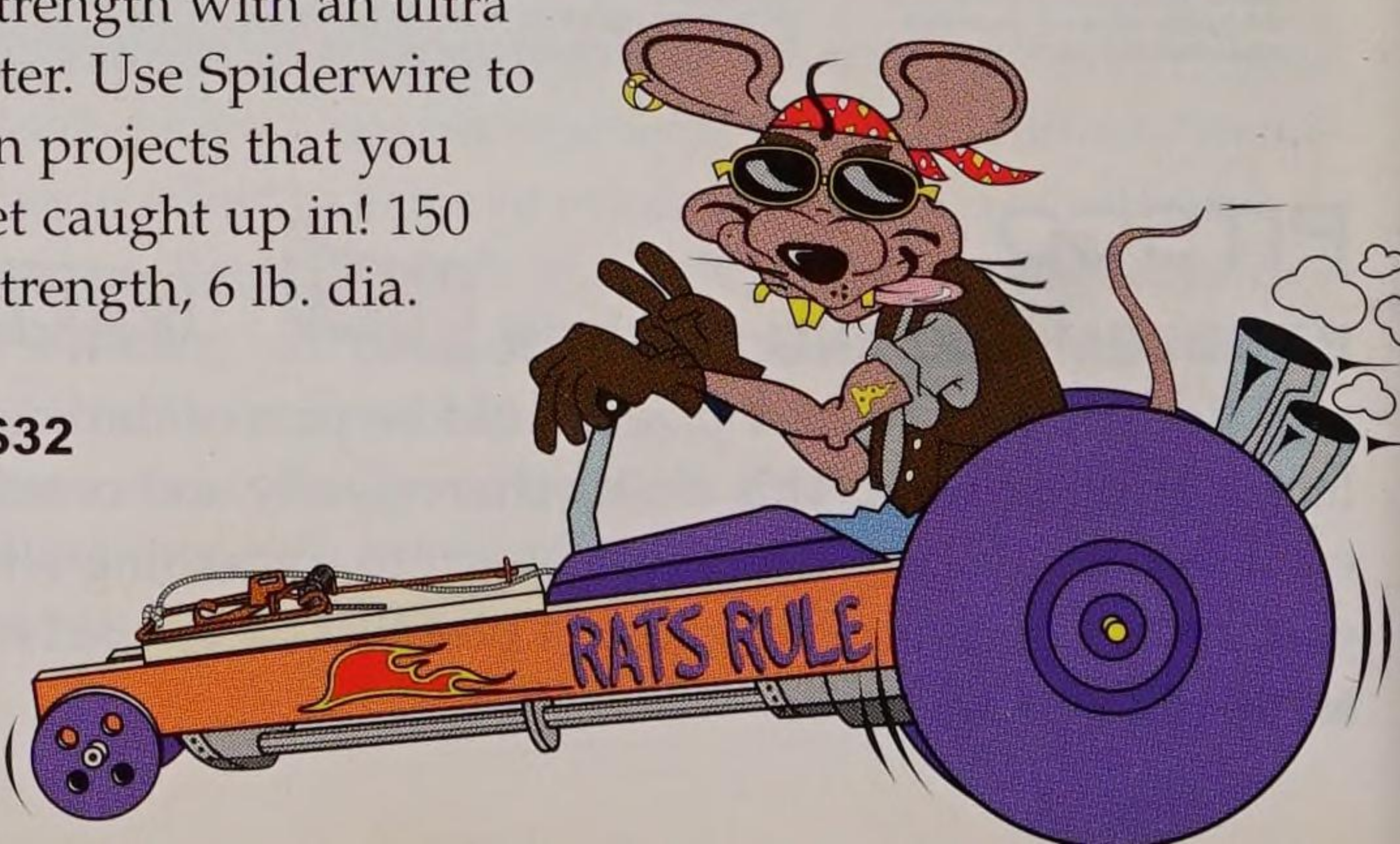


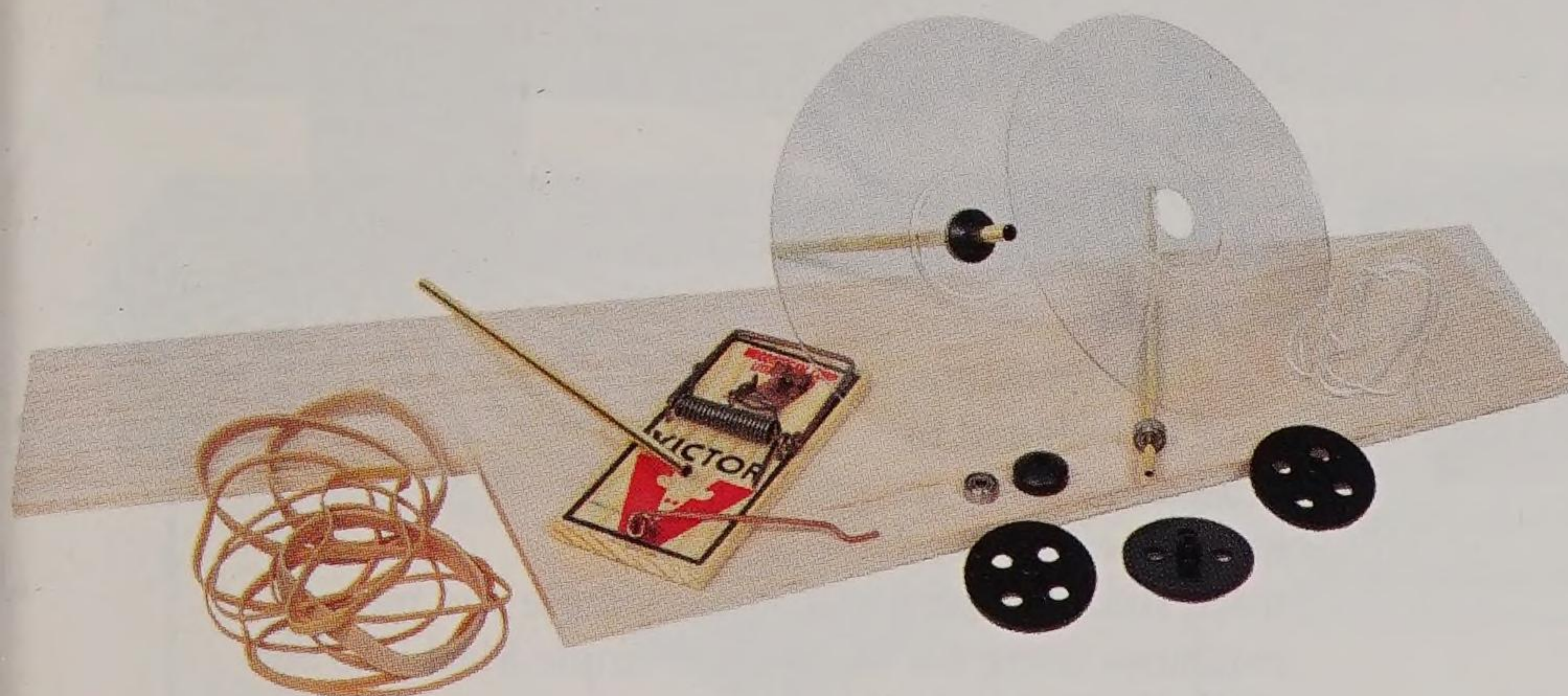
MOUSETRAPS

Use these Victor brandtraps for the engine on mouse trap-powered vehicles. 10 per pkg.

N750168—\$6

10 packages for \$54





INTRODUCTORY MOUSETRAP VEHICLE KIT **PITSCO** INNOVATIVE EDUCATION

Mousetrap vehicles provide an excellent opportunity for students and teachers to use science, mathematics, and technology to explore the process of engineering design. This kit comes with all the materials necessary to construct a mousetrap vehicle. Materials include: CD-ROM disks (for wheels), plastic wheels, a mousetrap, balsa wood, string, brass tubing, rubberbands, and ball bearings.

N754974—\$13.50

INTRODUCTORY MOUSETRAP VEHICLE CLASS PAK

This pak includes the same type of materials as the Mousetrap Vehicle Kit—CD-ROM disks (for wheels), plastic wheels, a mousetrap, balsa wood, string, brass tubing, rubberbands, and ball bearings—but there's enough to construct 25 vehicles. Includes 1 copy of student instructions.

N754975—\$299

N718792 13" Lever Arm—\$1.00

10 for \$9

N718794 19" Lever Arm—\$1.25

10 for \$11.30

N755041 Bevel Washers (20)—\$8

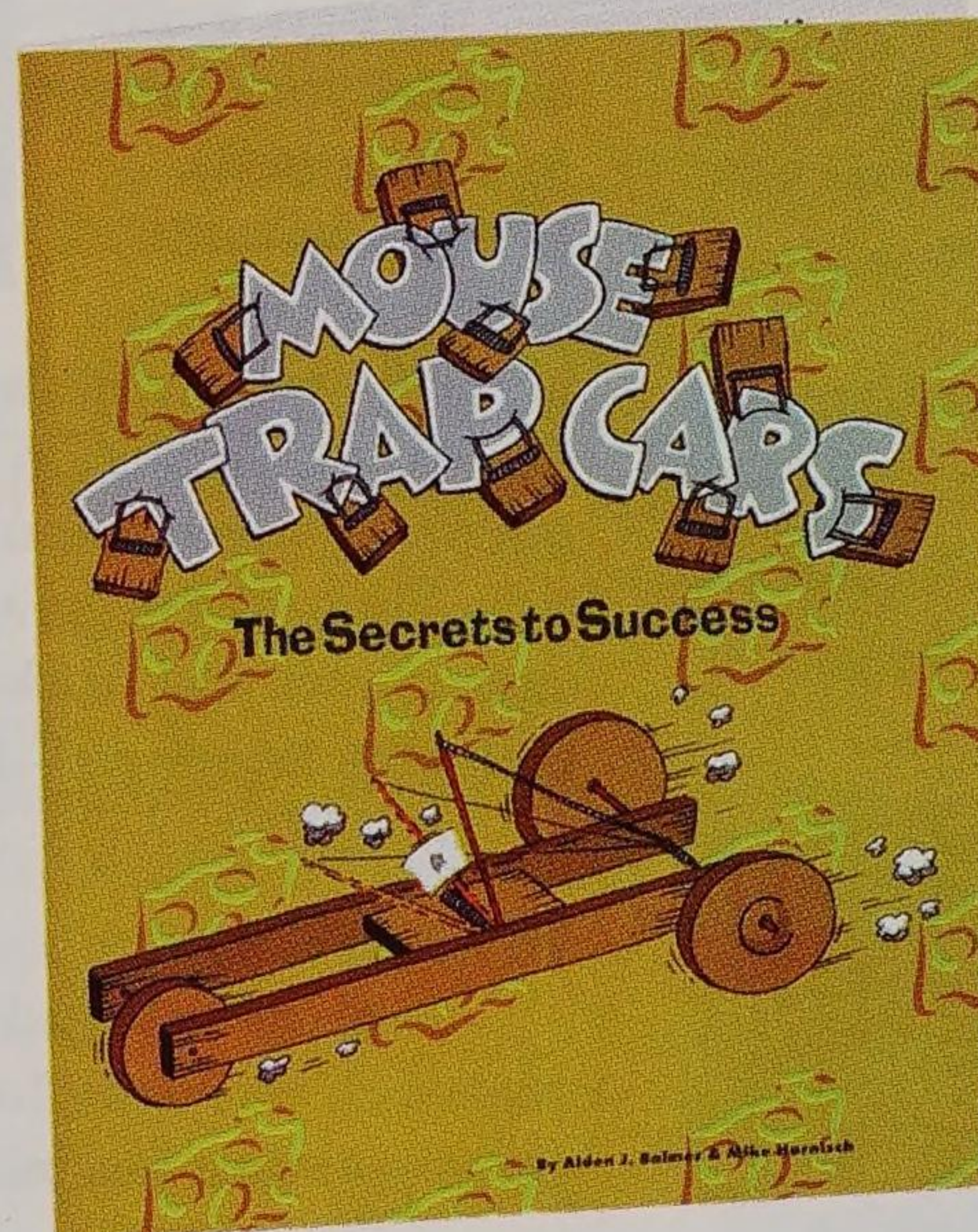
10 paks for \$72

N755037 2-1/2" Wheels (100)—\$39

10 paks for \$351

N755036 CD Wheel (10)—\$12.50

10 paks for \$112.50



MOUSETRAP CARS: THE SECRETS TO SUCCESS STUDENT EDITION

If you are doing a mousetrap vehicle activity, you need this book. It is packed with excellent ideas for building mousetrap cars from start to finish, including: making lightweight frames, reducing friction, making wheels, building a speed car, and building a distance car.

It further enlightens aspiring designers by exploring the physics elements that apply to mousetrap cars—friction, rotational inertia, Newton's Laws of Motion, energy, mass, torque and more. The book follows a light-hearted comic book format with oodles of helpful illustrations.

Paperback, 61 pages.

Reading Level: Middle School - High School

N754550 Student Edition—\$14

The teacher edition of this book gives you in-depth information on the mouse-trap vehicle activity. Lots of formulas & classroom tips!

N754979 Teacher Edition—\$18.95



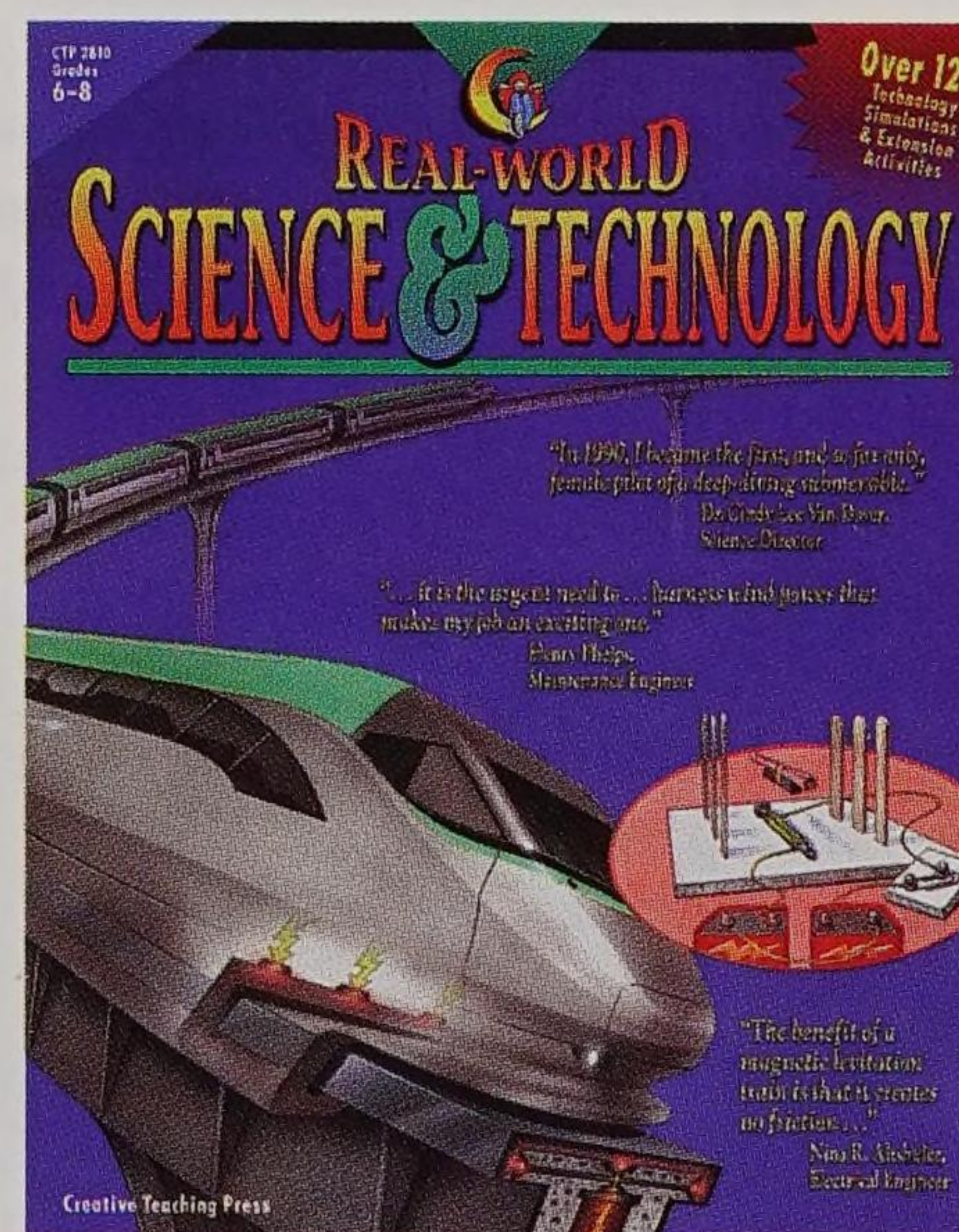
MOUSETRAP T-SHIRTS **PITSCO** INNOVATIVE EDUCATION

Mousetrap vehicle engineers, or mouseineers, now can proudly wear this colorful shirt that shows everyone what drives them. T-Shirts are made from 100% cotton and are available in large & extra-large sizes. Say cheese!

N754982 Large

N754983 X-Large

\$14.95



REAL-WORLD SCIENCE & TECHNOLOGY

Students, sometimes, do not relate classroom subject matter with life and work in the real world. The purpose of this book is to make that connection apparent, and to demonstrate to students, through motivating hands-on activities, how their learning may apply to their future careers. Whether you are teaching about careers or applying science curriculum to the real world, this book is an excellent resource.

Paperback, 144 pages.

Reading Level: Middle School

N756056—\$15.95

New!

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LEGO Technic



MOTORIZED SIMPLE MACHINES SET #979645

219 elements

This set is a wide-ranging tool for exploring simple machines that adds the concept of motorization. A 9-volt motor enables students to bring their projects to life. Through the building of realistic motorized models, students develop a strong understanding of mechanical principles.

- Designed for students working in pairs
- Includes a 9-volt motor, battery box and connecting lead
- Sturdy plastic storage tray with lid for easy classroom cleanup, inventory and storage
- 8 green cards with building projects for exploration of simple machines concepts
- 10 blue cards for applying simple machines concepts by building models of real world devices like: folding lawn chair, drawbridge, conveyor belt, turnstile, crane and more.

N979645 Motorized Simple Machines Set—\$98**N979630 Non-Motorized Simple Machines Set—\$74.25****N979615 9-Volt Motor and Battery Box—\$29**

MOTORIZED SIMPLE MACHINES TECHNOLOGY PACK #901185

This pack contains enough materials for 10 students working in pairs, plus free teacher support materials.

Includes:

- 5 Motorized Simple Machines Sets (#979645)
- Free Simple and Motorized Machines Activity Pack (#979631)

N901185—\$490

Professional staff development
available in most states.
Call for details. 1-800-362-4308

EDUCATIONAL CONCEPTS

- operation of wheels and axles, levers, gears and pulleys
- making work easier
- practical understanding of how simple machines are used in everyday items
- automation and motorization
- multiplication of torque and speed

SIMPLE AND MOTORIZED MACHINES ACTIVITY PACK #979631

EXCLUSIVE

This literature pack is designed to provide teachers the materials they need to teach students the principles of simple and motorized machines using the Motorized Simple Machines Set #979645. The pack includes:

- An 80-page Teacher Guide divided into 6 progressive units. The guide provides background information, key words and concepts, sample solutions, and ideas for additional activities.
- 31 worksheet copymasters covering activities which focus on exploring, investigating and problem solving; each worksheet is designed to take approximately 45 minutes.

N979631—\$39.75

CD ROM INVENTION STUDIO CD-ROM

Design, build and test your own real inventions.

Invention Studio gets your creative juices flowing with the Brainstormer. It walks you through the steps of invention to get you started. You can also find out about inventors and their inventions, for your inspiration. Then, in the garage, you get to design, build and test cars, planes and trucks.

N754675 Windows—\$39

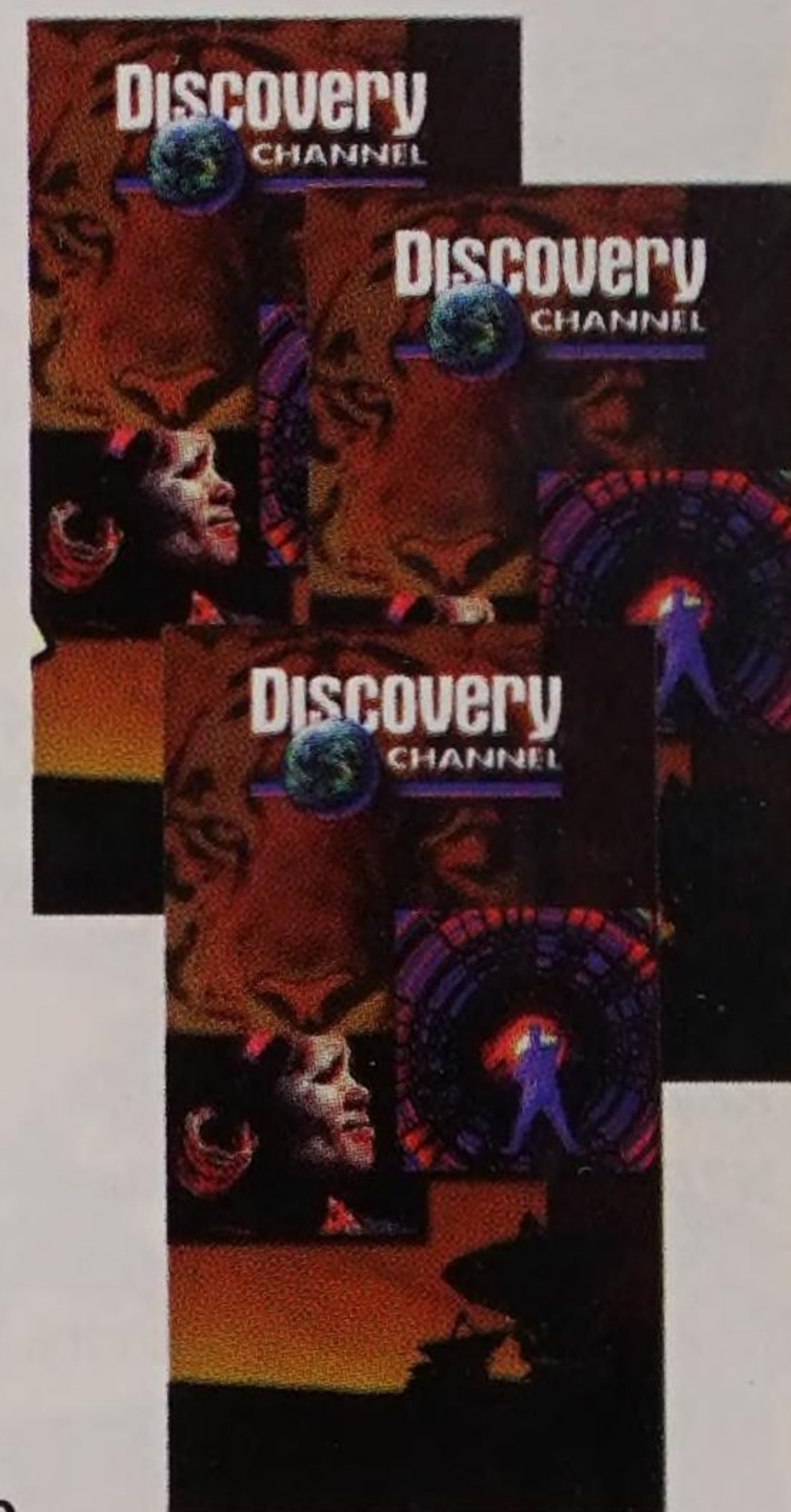
INVENTION

From simple gadgets to high-tech wonders, Invention takes you on a fascinating journey of the inventions that have changed our world. You'll look behind the scenes and discover the ingenuity and determination of the great minds behind the inventions. The three-volume series examines digital music, the solar car, 3-D computer graphics, the electric guitar, Kevlar™ materials, and more.

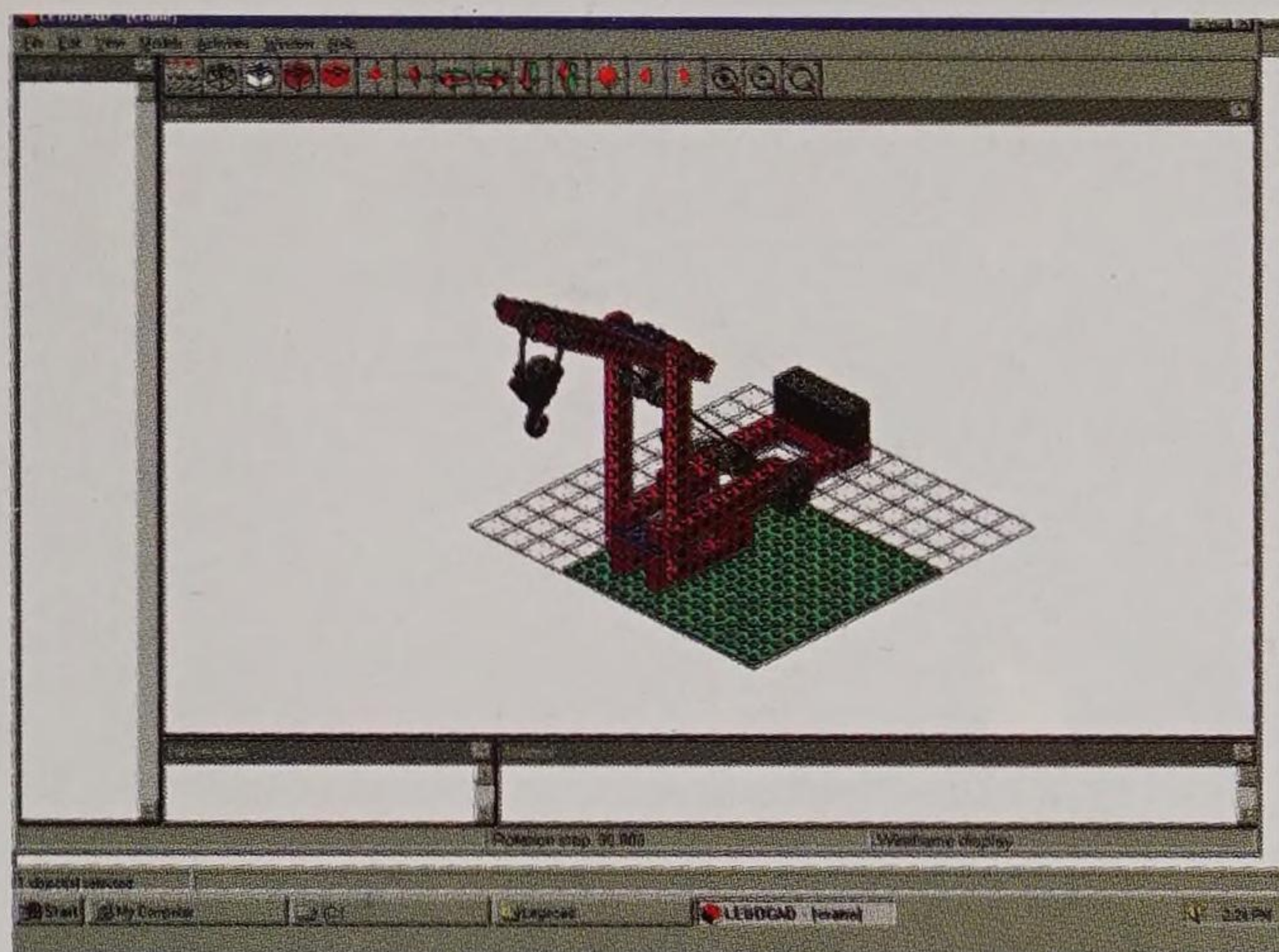
Volumes one and two are 90 minutes each.

Vol. three runs 120 minutes.

Viewing Level: Middle School - High School

N752431 (3-vol. series)—\$79

Fax Orders Free
1-888-534-6784



EDUCATIONAL CONCEPTS

- operation of levers
- wheel and axle, pulley and gear system operation
- interaction of mechanical components
- hands-on application of simple machine principles
- practical understanding of how simple machines are used in everyday items
- automation and motorization

LEGO® CAD: SIMPLE MACHINES DESIGN SOFTWARE FROM AUTODESK® #900033

EXCLUSIVE

Macintosh/Windows

This exciting software from LEGO Dacta and Autodesk, Inc. empowers students to design their own LEGO models using virtual LEGO elements. With 3-D computer images of pieces from the LEGO Dacta Motorized Simple Machines Set (#979645) your students will:

- Create and print out building instructions along with budget and cost analysis for real life situations
- Document steps as they design their models
- Bring their on-screen designs to life using the Motorized Simple Machines building set
- Challenge other students to build from their designs

N900033—\$49 NEW LOWER PRICE

LEGO CAD SOFTWARE AND SITE LICENSE #900038
900038 Mac/Windows—\$249 NEW LOWER PRICE



MOTORIZED

SIMPLE MACHINES SET #979645

EXCLUSIVE

219 elements

This set is a wide-ranging tool for exploring simple machines that adds the concept of motorization. A 9-volt motor enables students to bring their projects to life. Through the building of realistic motorized models, students develop a strong understanding of mechanical principles.

N979645 Motorized Simple Machines Set—\$98

N979631 Simple and Motorized Machines

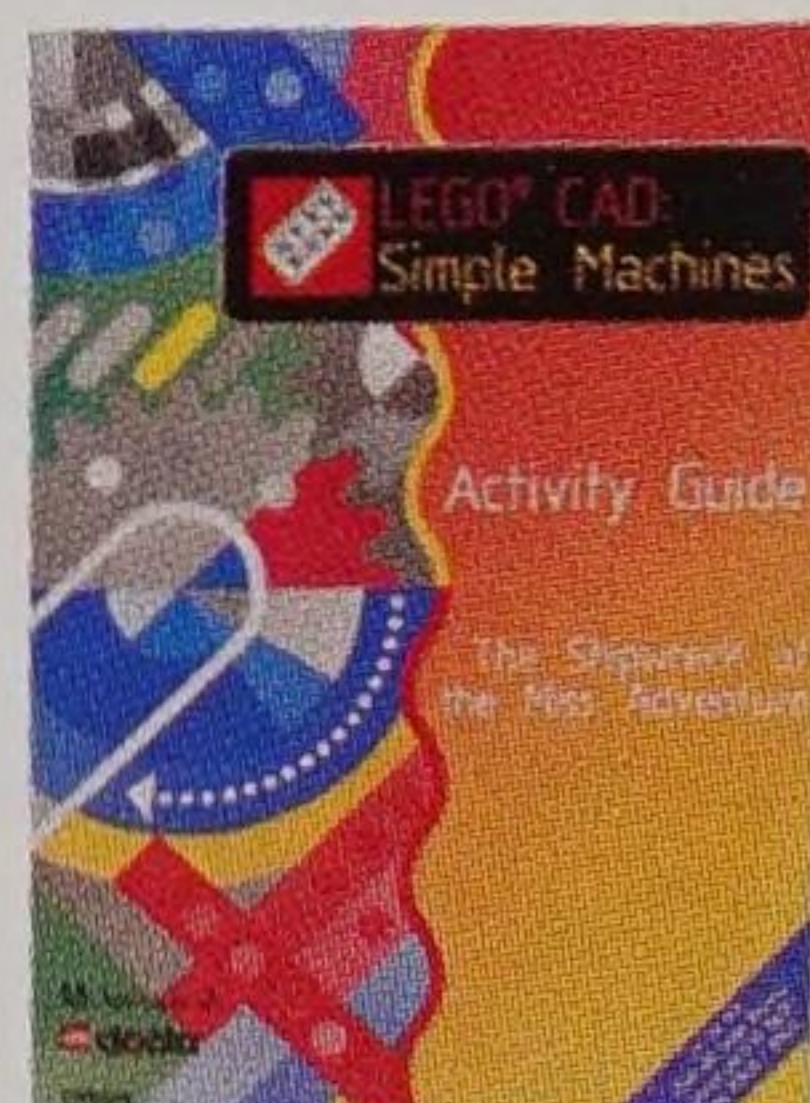
Activity Pack—\$39.75

See page 45 for more details.

System Requirements

	Macintosh	Windows 3.1 or 95
Processor	requires Power PC w/603-e RISC	486SX with 487 math coprocessor or 486DX, Pentium or better
Memory	16MB or more	16MB or more
Graphics	640 x 480 minimum 16 or more colors	640 x 480 minimum 16 or more colors

Using these materials, students can plan, document, record, and share information about the models they build. Together, the software, design challenges, and the building sets provide a great set of learning tools for extending and assessing your students' understanding of simple machines concepts.



LEGO CAD ACTIVITY GUIDE: THE SHIPWRECK OF THE MISS ADVENTURE #900034

This theme-based book includes a series of 7 design challenges for use with the LEGO CAD Design Software and the LEGO Dacta Simple and Motorized Machines Sets (#979645).

N900034—\$20.50

LEGO CAD CLASS PACK #9000XX

Best Buy!

- 10 Motorized Simple Machines Sets (#979645)
- LEGO CAD Software and User Guide (#900033)
- Site License for LEGO CAD (#900038)
- LEGO CAD Activity Guide:
Shipwreck of the Miss Adventure (#900034)
- Simple and Motorized Machines Activity Pack (#979631)

N9000XX—\$1,255 NEW LOWER PRICE



**Professional staff development
available in most states.
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Men, in
teaching
others, learn
themselves.
Seneca



SWITCH ON! ELECTRONIC BUILDING BLOCK SET

With this innovative set, children as young as 8 can discover the basic principles of electronics. In the same way that children build towers with wooden blocks, they can build real, functioning electrical circuits with Switch On!

From the most basic to intricate, over 40 different circuits can be built with the color-coded components. Components are large and easily manipulated by small hands. Set includes battery box, electric motor, fire engine siren, flashing doorbell, diode, resistors, transistors, capacitors, conductors, potentiometer—50 pieces in all!

Includes complete step-by-step instructions and a base building plate. Requires 4 AA batteries, not included. Ages 8 and up.

N756121—\$59.95

New!

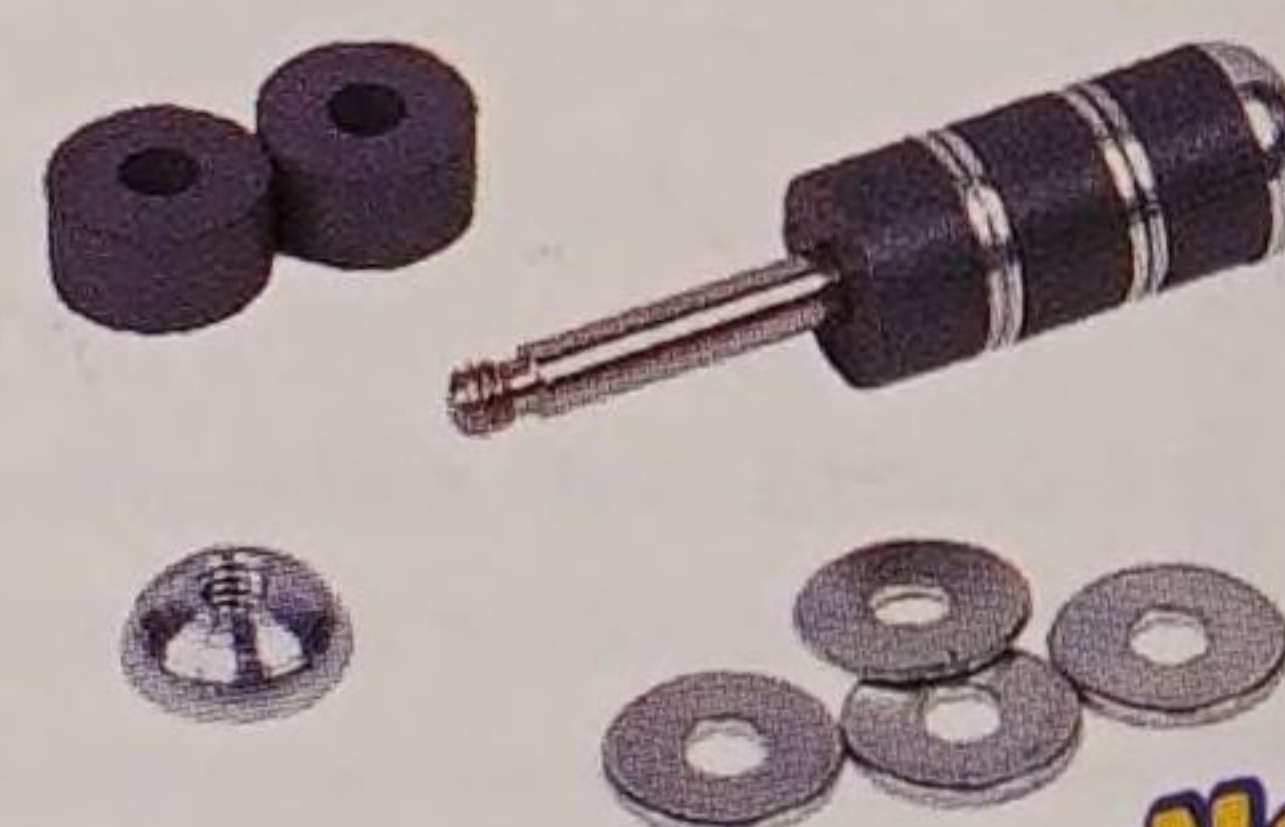
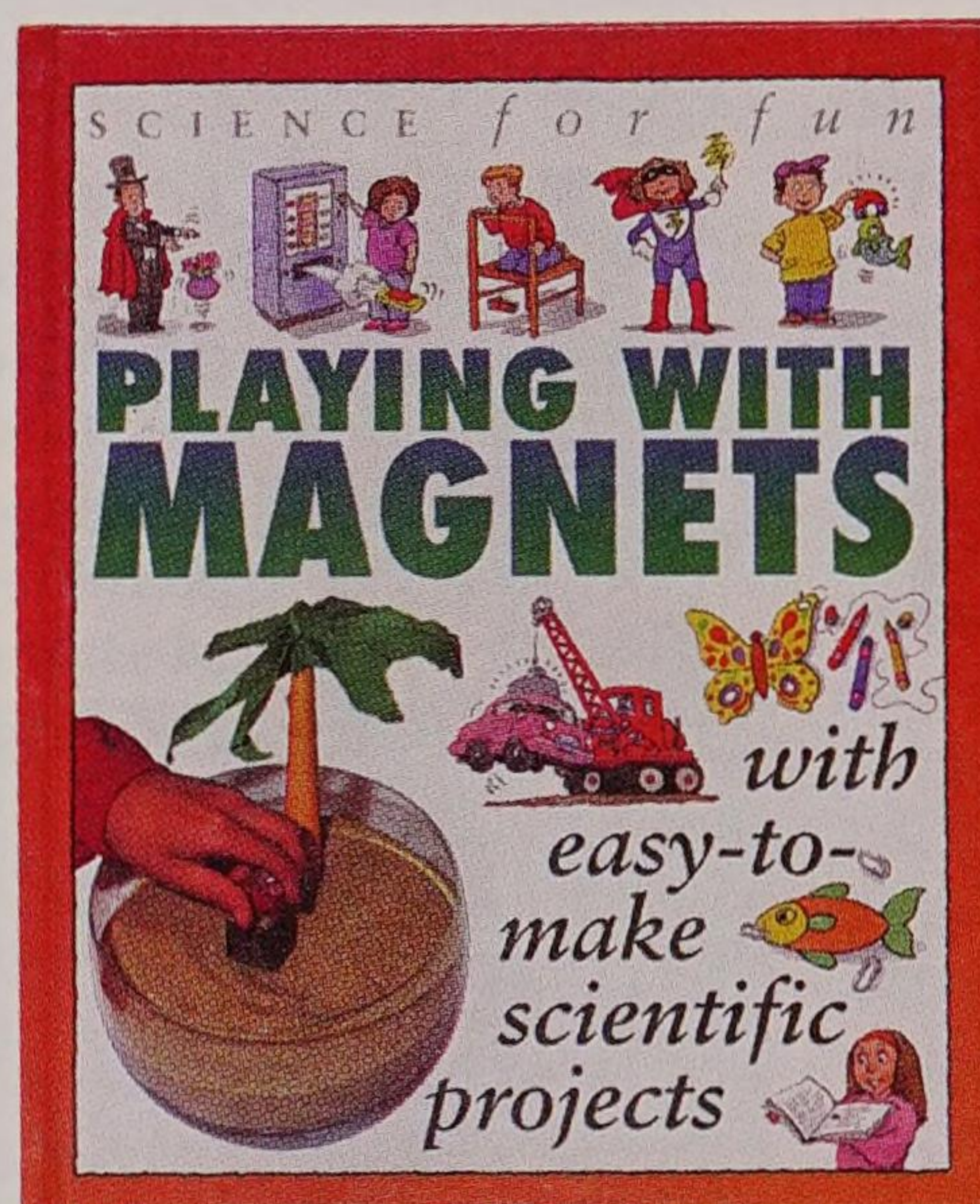
PLAYING WITH MAGNETS

This Science for Fun book introduces young students to the science of magnetism and an understanding of its basic concepts. Simple text, colorful illustrations, photos, and diagrams are all part of these step-by-step activities. The reader is guided in analyzing the results of each experiment and then offered ideas for further activities which will reinforce his/her understanding of the principle.

Hardback, 32 pages.

Reading Level: Primary

N756076—\$20.95



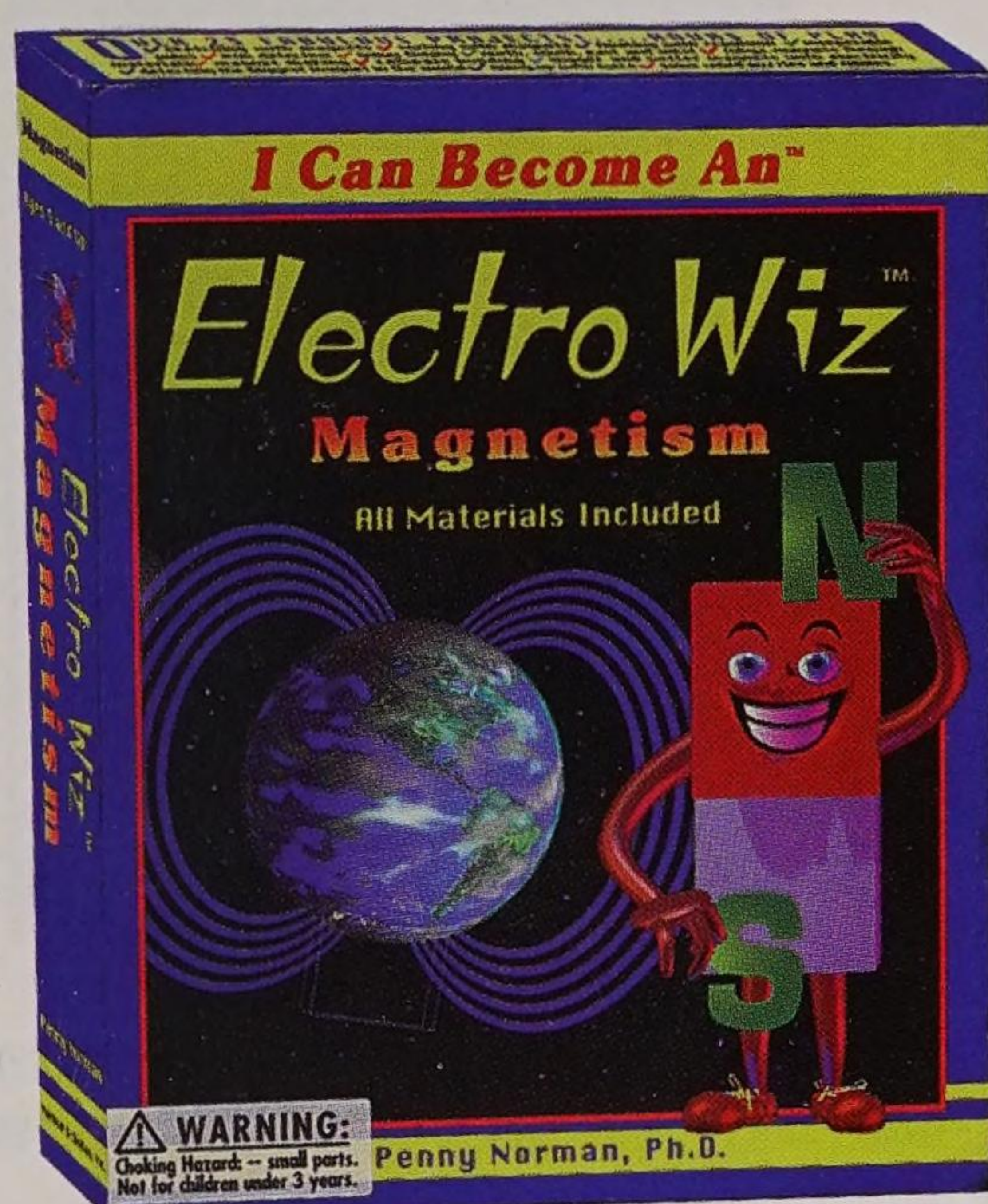
MOO MAGNET

Holy cow! Here's a little-known magnet fact: Veterinarians often give 6-month-old calves pills that are actually powerful magnets. The magnets stay in the critters' stomachs for a lifetime, picking up harmful metal-staples, nails, bailing wire, etc.-swallowed while grazing.

This fun and educational kit contains one Moo Magnet set and a 16-page booklet that helps kids discover the basic principles of magnetism. In national taste tests, 3 out of 4 cows preferred Moo Magnets over the leading brand. *But seriously folks, these Moo Magnets are not suitable for use in real cows.*

N756071—\$7.95

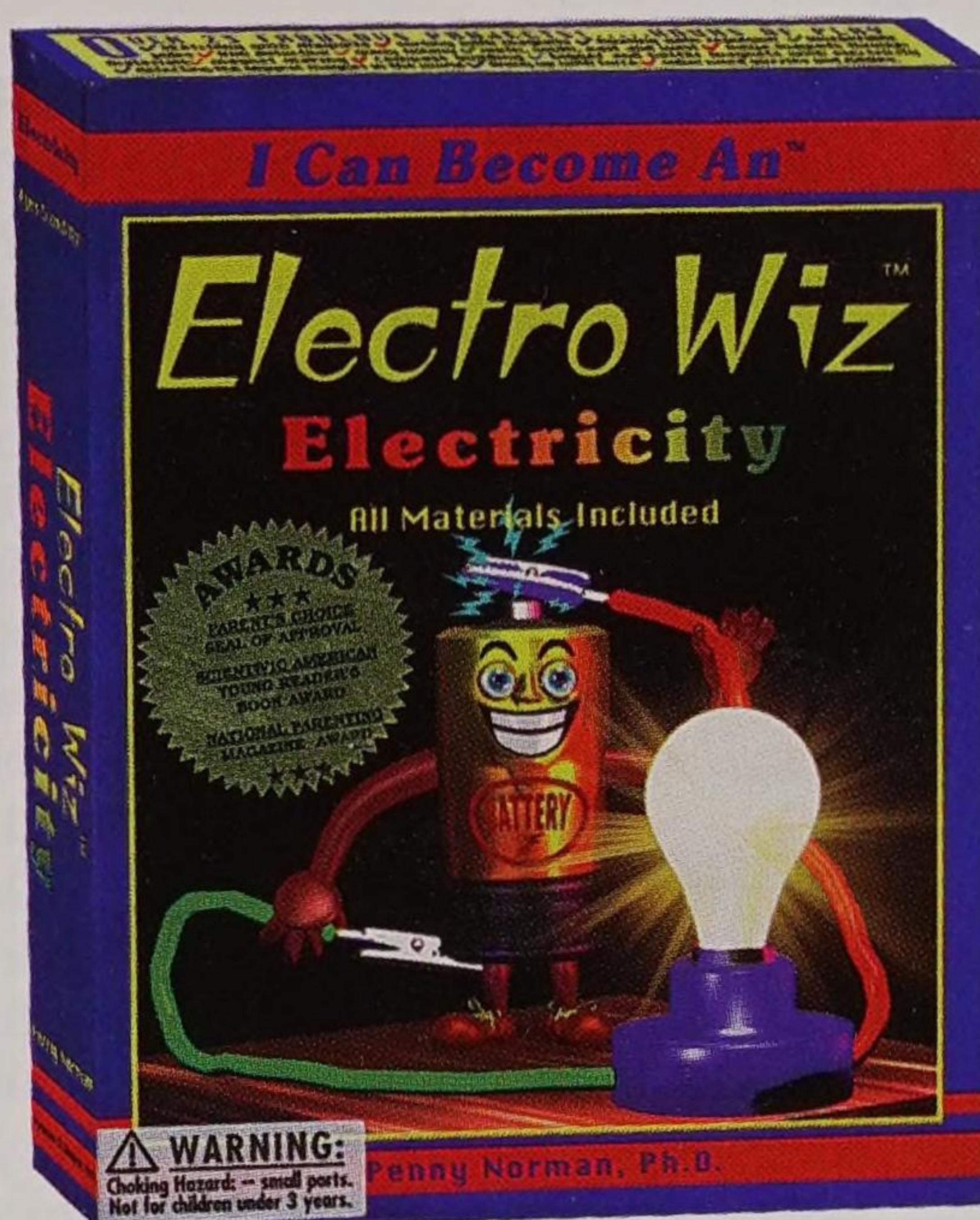
Fax Orders Free
1-888-534-6784



ELECTRO-WIZ: MAGNETISM **New!**

The 23 fabulous projects in this kit can help young students become magnetism experts. The excellent full-color booklet features dynamic 3-D illustrations and concise, kid-friendly instructions. The kit includes everything kids need to complete several fun and simple magnetism experiments. Includes: heavy duty mega magnet, compass, iron filings, magnet wire and string, stickers, plastic storage box, 40-page booklet, and more. Ages 5 and up.

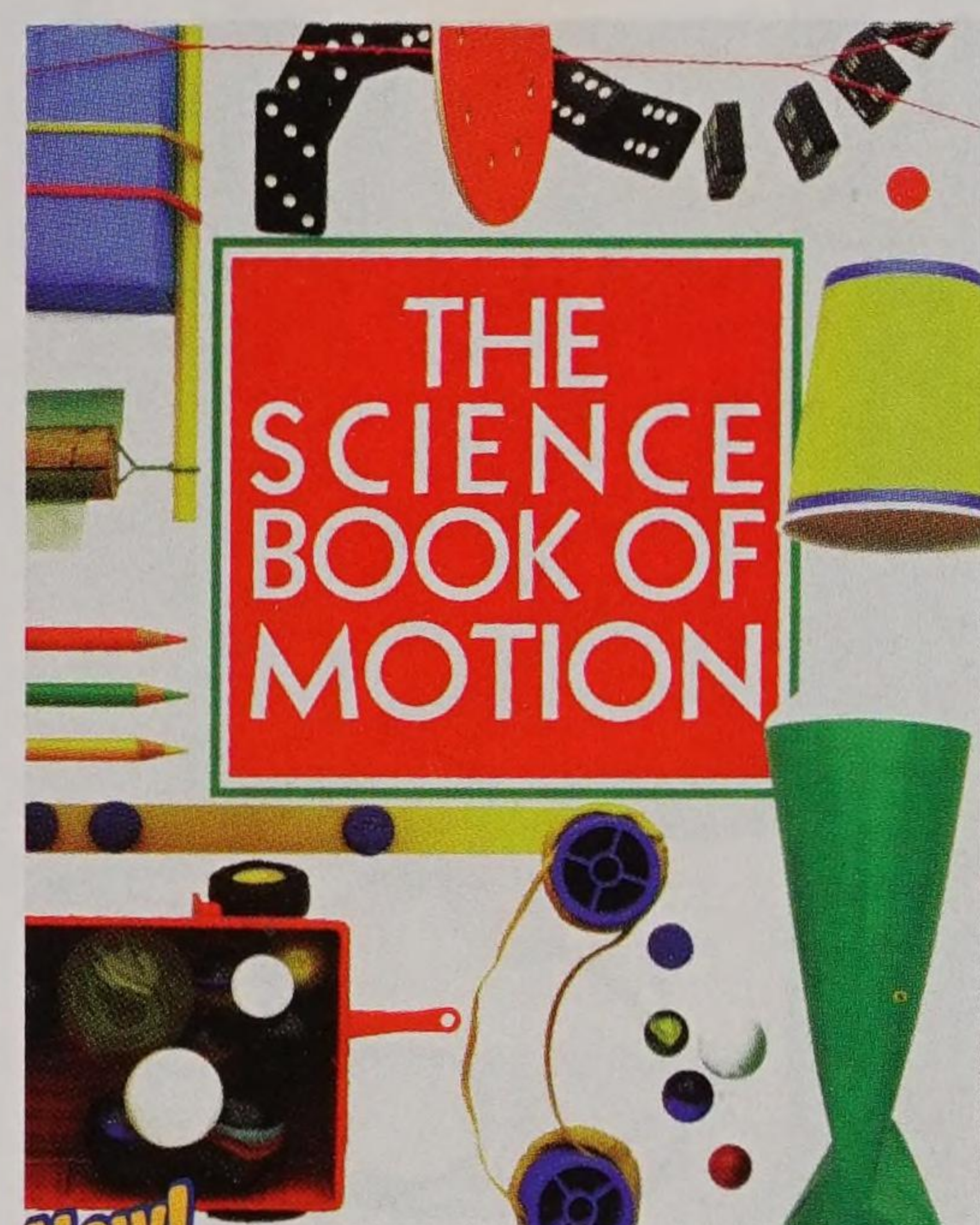
N756082—\$19.95



ELECTRO-WIZ: ELECTRICITY **New!**

This great little kit can help kids as young as 5 discover the principles of electricity. The excellent full-color booklet features dynamic 3-D illustrations and concise, kid-friendly instructions. The kit includes everything kids need to complete several fun and simple electricity experiments. Includes: electric motor, 4 color-coded alligator leads, pin-wheel, light bulb and holder, buzzer, LED, hard plastic storage case, 36-page book, and more. Ages 5 and up.

N756081—\$19.95



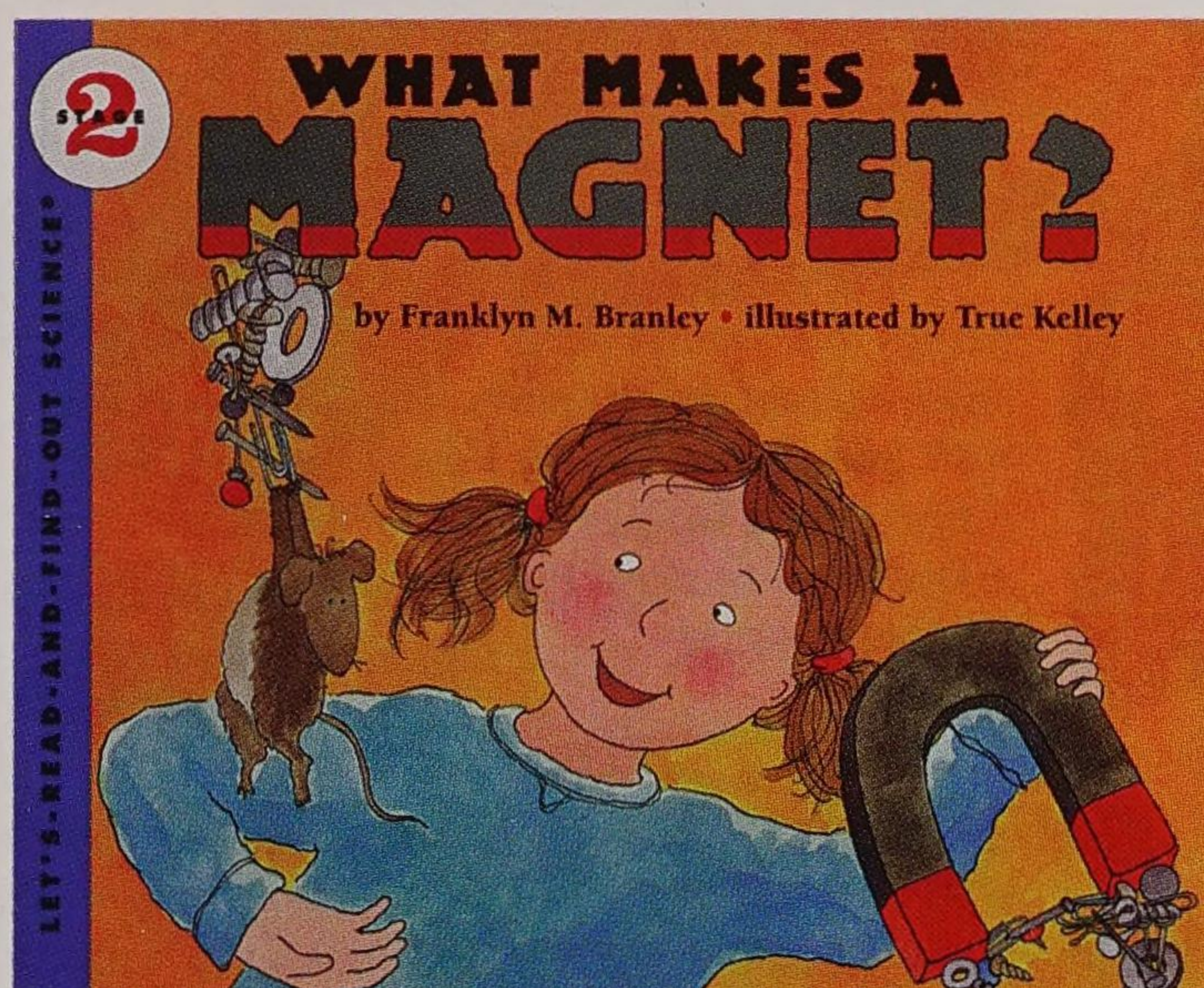
New!

THE SCIENCE BOOK OF MOTION

Is it possible to use a magnet to change the course of a pinball? Turn a cup full of peas upside down without spilling any? Make a checker move without touching it? Discover the possibilities of motion with The Science Book of Motion. This book provides experiments with simple steps to help students learn the basic principles of motion and how to apply them to everyday life. Hardback, 29 pages.

Reading Level: Primary

N756066—\$9.95

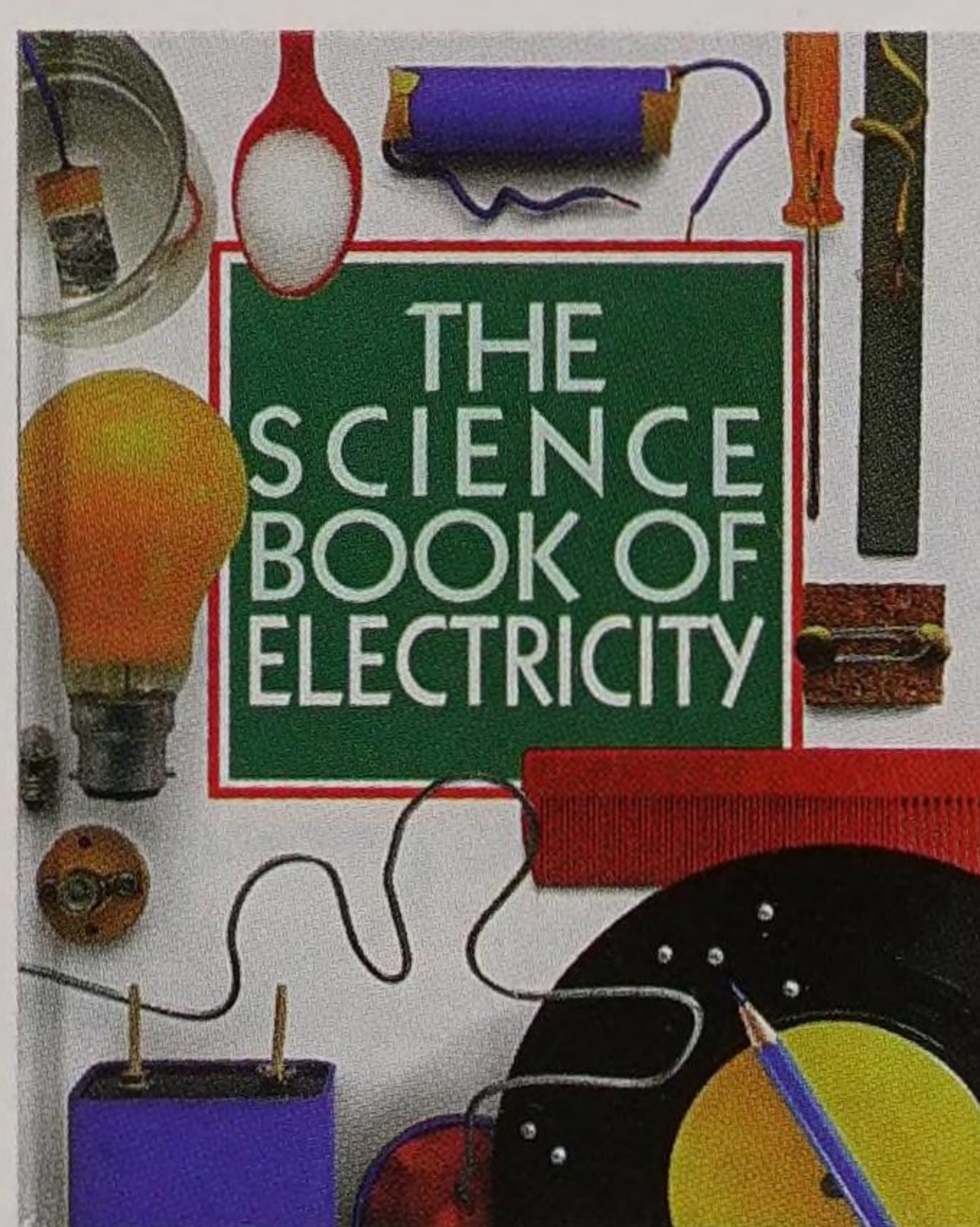


WHAT MAKES A MAGNET? **New!**

This Stage 2 of Let's-Read-and-Find-Out Science book explores the challenging concepts of magnets. Students follow the step-by-step instructions about how to make a magnet and then discover how magnets pick up things. Paperback, 32 pages.

Reading Level: Primary

N756067—\$4.95



New!

THE SCIENCE BOOK OF ELECTRICITY

This exciting book will show your students how to bend a stream of water without touching it; make a light switch from cork; thumb-tacks, and a paper clip; split the hydrogen and oxygen gases in water; and much more. By following the simple steps of each experiment, students can learn basic principles of science and apply them to the world around them. Hardback 29 pages.

Reading Level: Intermediate

N756065—\$9.95

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PITSCO **dacta**
PARTNERS IN INNOVATIVE EDUCATION

Education does not mean teaching people what they do not know. It means teaching them to behave as they do not behave.

John Ruskin



LEGO Technic

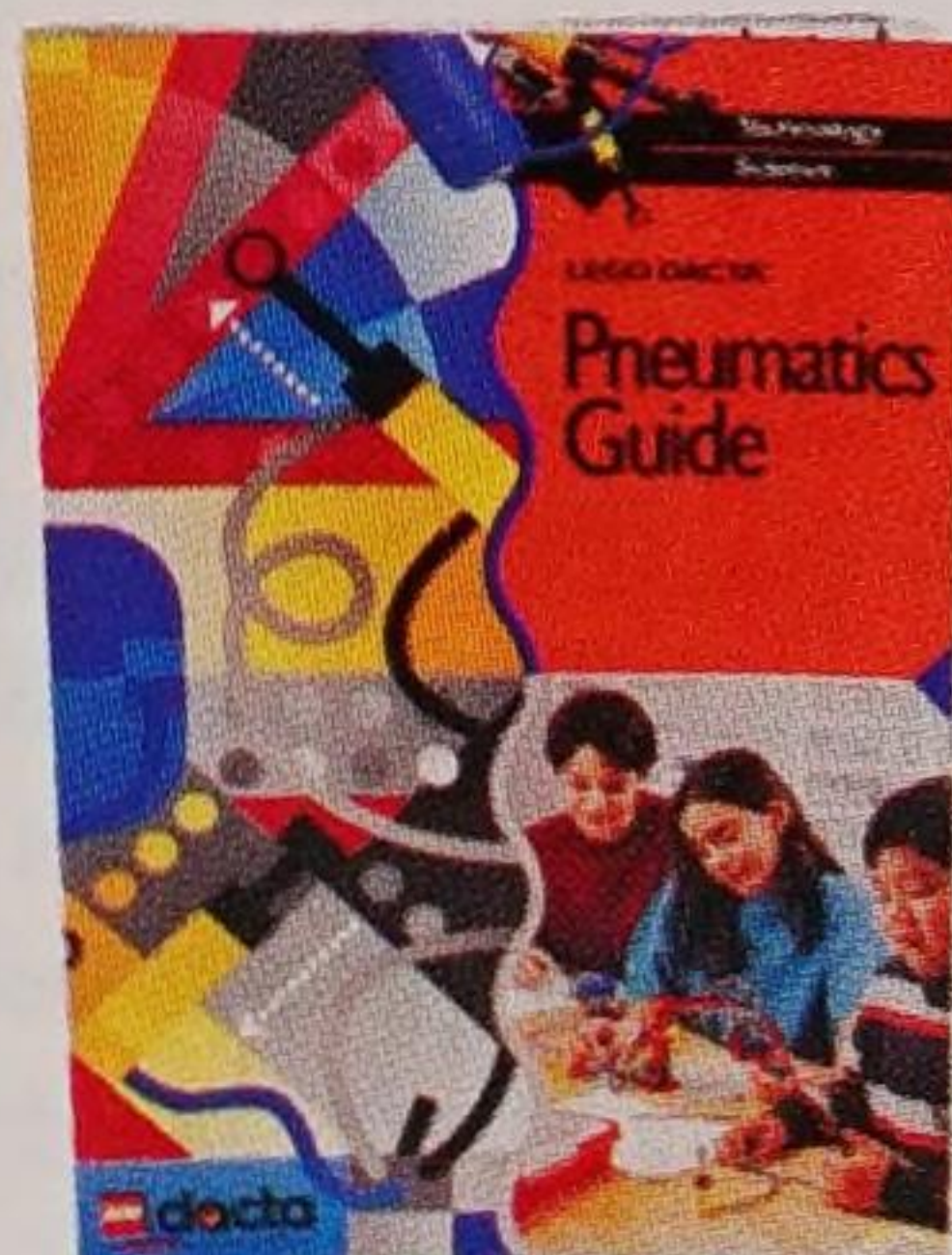
PNEUMATICS I: EXCLUSIVE
INTRODUCTION TO AIR POWER SET
#979617

75 building elements

This set is designed for learning introductory pneumatics. Students explore the functions of each compressed air element as they build and operate simple models. The models include a simple pneumatic circuit, a vertical press and a scissors lift. Besides discovering the operation of pneumatic systems, students also work with 1st, 2nd, and 3rd class levers.

- Designed to be used with students working in pairs
- Includes a 2-way pneumatic cylinder, a pneumatic valve, a hand pump and tubing
- 3 building cards with step-by-step pictorial instructions
- Sturdy plastic storage case with clear compartmentalized tray
- Clean-up and inventory made simple with pictorial parts list

N979617—\$29.50



EDUCATIONAL CONCEPTS

- how air can be used to transmit power
- operation of simple pneumatic circuits
- function of pneumatic components
- real-world applications for pneumatic systems

EXCLUSIVE

PNEUMATIC TEACHER GUIDE #979634

This comprehensive Teacher Guide is organized into 2 modules, one for each of the 2 Pneumatic Sets. The Introduction to Air Power (#979617) activities are designed for the beginning level, while the Pneumatics II (#979633) are for more experienced students. Each module includes:

- Introduction and background information
- Pre-tests/post-tests with answers
- Activity copymasters
- Sample solutions
- Teacher notes

N979634—\$20



Best Buy!

EXCLUSIVE

PNEUMATICS I: INTRODUCTION TO AIR POWER CLASS PACK #900022

This pack introduces the basics of pneumatics to an entire class. It's designed for 20 students working in pairs. The Pack includes:

- 10 Introduction to Air Power Sets (#979617)
- Pneumatic Teacher Guide (#979634)
- Discovering Fluid Power video (#771145)

N900022—\$315

Kids in this catalog are larger than they appear.

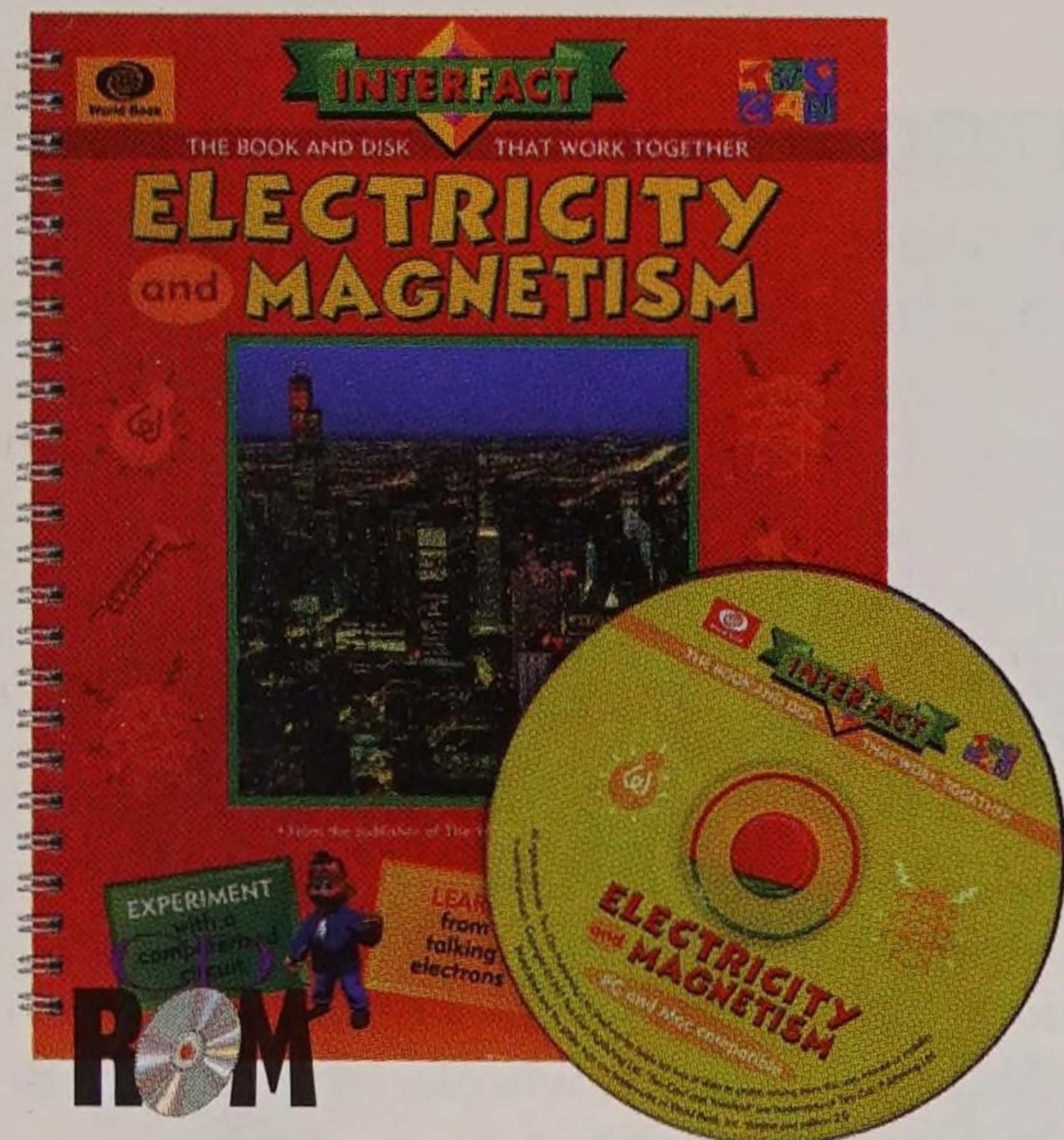
DISCOVERING FLUID POWER VIDEO #771145

This great 12-minute video covers the basic concepts of fluid power, touches on the scientific principles behind it, and emphasizes its capabilities. It shows real world examples of both hydraulic and pneumatic applications at work. Designed for science and math teachers and students, it's a super way to introduce the concepts of pneumatics.

N771145—\$25



Fax Orders Free
1-888-534-6784



ELECTRICITY AND MAGNETISM **New!** BOOK AND CD-ROM

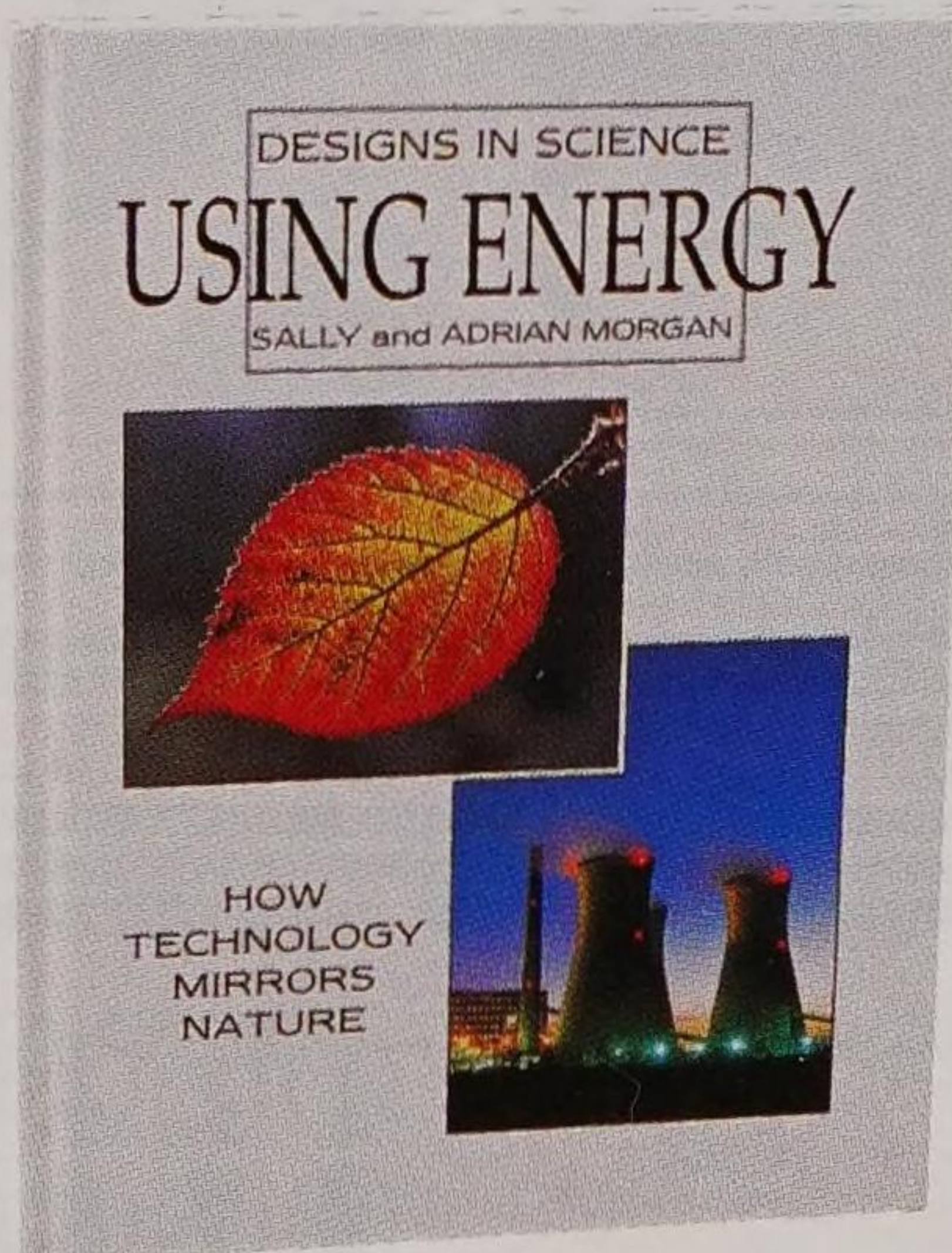
Learn about magnets, polarity, circuits, batteries and much more with this fantastic fully-illustrated book. Then insert the CD-ROM in your Mac or PC computer and complete interactive experiments like the computerized circuit, materials conductivity tests. Also learn how electricity is generated and transmitted about the country and discover the fundamentals of electricity from talking electrons! Ages 7-12

N756132 Mac/Win CD-ROM and book—\$14.95

MAGNET DISCOVERY KIT **New!**

Unlock the mystery of magnetism! This kit contains an assortment of powerful magnets, fun accessories, and a booklet full of incredible activities that teach the basic principles of magnetism. Once kids get their hands on these magnets, they'll never want to put them down. So get ready for some fascinating, fantastic fun with magnets! For ages 8 and up.

N756072—\$29.95



DESIGNS IN SCIENCE USING ENERGY

Sally Morgan
and Adrian Morgan

"Using Energy" introduces various forms of energy, from heat and light to electrical and chemical energy. Topics covered are solar cells and photosynthesis, energy sources and generation, and insulation and energy conservation. Examples are from both the natural and human-made world.

Hardback, 48 pages.

Reading Level: Intermediate - Middle School

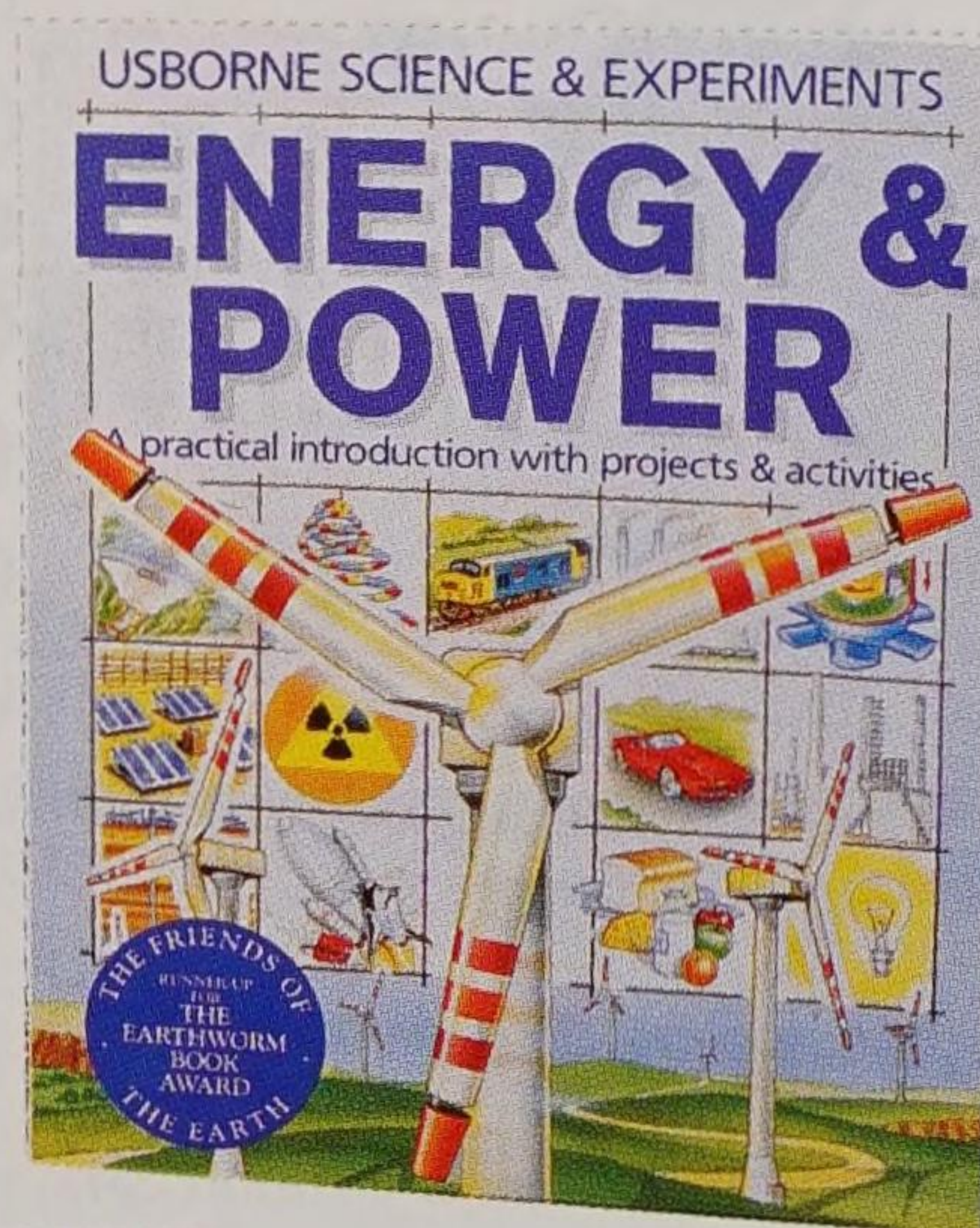
N752305—\$14.95



DYNAMO FLASHLIGHT **New!**

This cool flashlight pays tribute to Michael Faraday's 1831 discovery: Mechanical energy can be converted into electrical energy by moving conductors through magnetic fields. The light requires no batteries; you operate it by squeezing the lever handle, which spins a simple generator. The generator, in turn, powers the light. The clear shell exposes all the internal parts, so you can see the science at work! Includes an extra bulb.

N756062—\$14



USBORNE ENERGY AND POWER

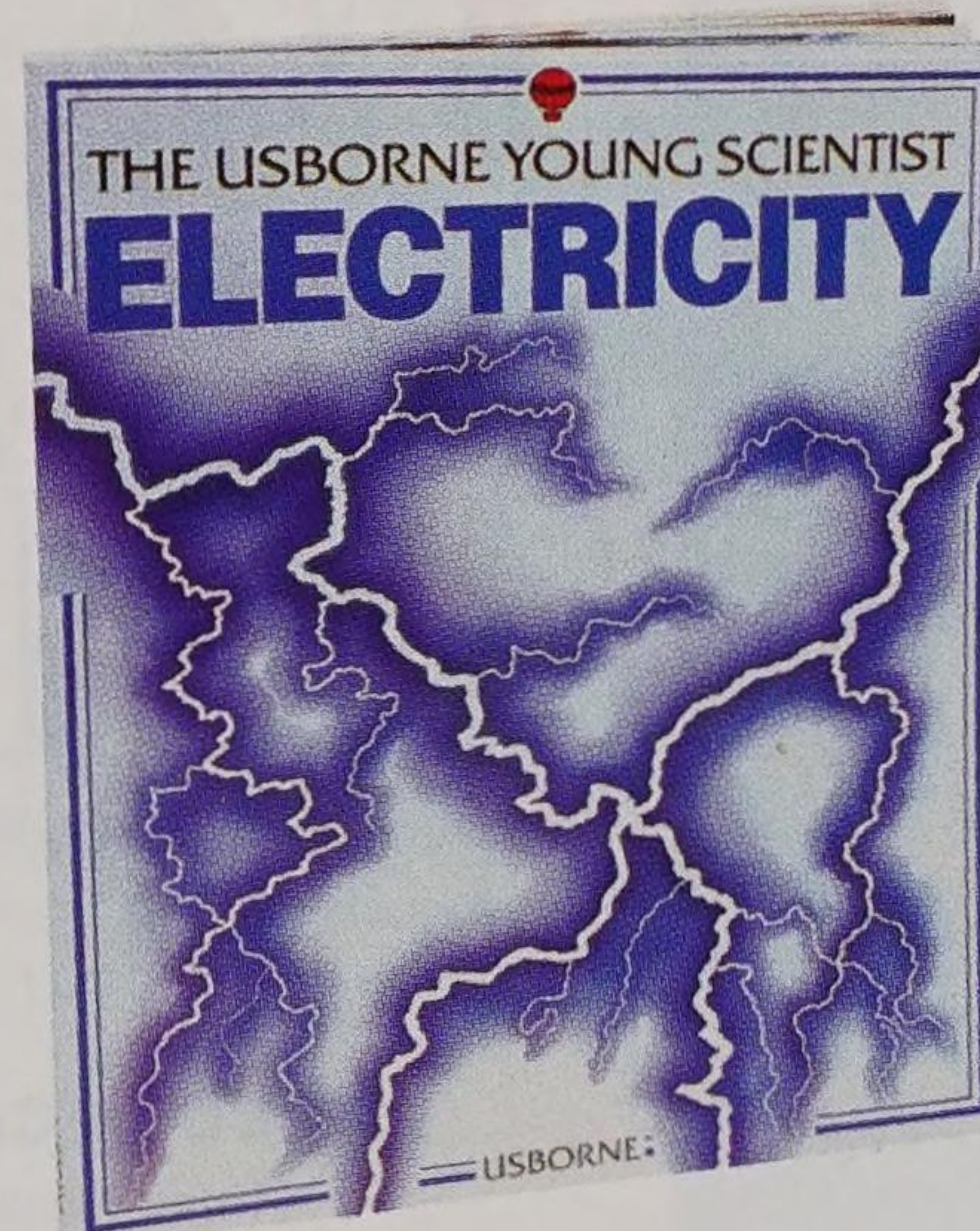
Richard Spurgeon and Mike Flood

This practical introduction represents active science learning of the highest quality.

Basic information of the subject is combined with hands-on activities, experiments and projects. The latest up-to-date developments are examined along with the environmental problems that may accompany them. Paperback, 48 pages.

Reading Level: Intermediate - High School

N751497—\$7.95



USBORNE ELECTRICITY

Philip Chapman

This easy-to-read book features exciting color graphics. It's a stimulating introduction to the basics of electricity.

Paperback, 32 pages.

Reading Level: 5th Grade - High School

N751054—\$6.95

10 for \$62.60

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PARTNERS IN INNOVATIVE EDUCATION

The true aim of everyone who aspires to be a teacher should be, not to impart his own opinion, but to kindle minds.
Frederick W. Robertson



PITSCO
INNOVATIVE EDUCATION

BALLOON CAR EXPLORE-A-PAK

EXCLUSIVE

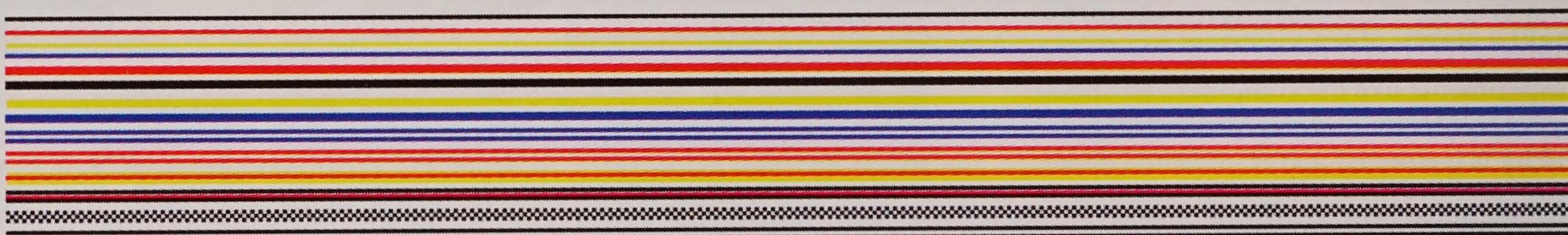
Your students will feel inflated after they participate in this fun and challenging balloon car activity. Students build their own balloon-powered vehicles, ranging from the simple (cardstock templates are provided for the vehicle bodies) to the outrageous (students can dream up their own wild designs)!

If desired, the cars can be raced against one another in a classroom showdown. The Balloon Car Explore-A-Pak includes a teacher guide, balloons, axles, wheels, templates, and other needed materials.

For a class of 50 students.

N990011—\$69

A



B



C



D



E

PITSCO DECALS

PITSCO
INNOVATIVE EDUCATION

These decals will add unique flavor to balloon cars, vehicles, rockets, gliders, and more!

Pinstripe decal sheet is 4" x 24" and other decal sheets are 6" x 8".

- A. N754540 Pinstripes—\$2.95**
- B. N754544 Neat Stuff—\$2.95**
- C. N754543 Flags & Flames—\$2.95**
- D. N754542 Numerals—\$2.95**
- E. N754541 Plane art—\$2.95**

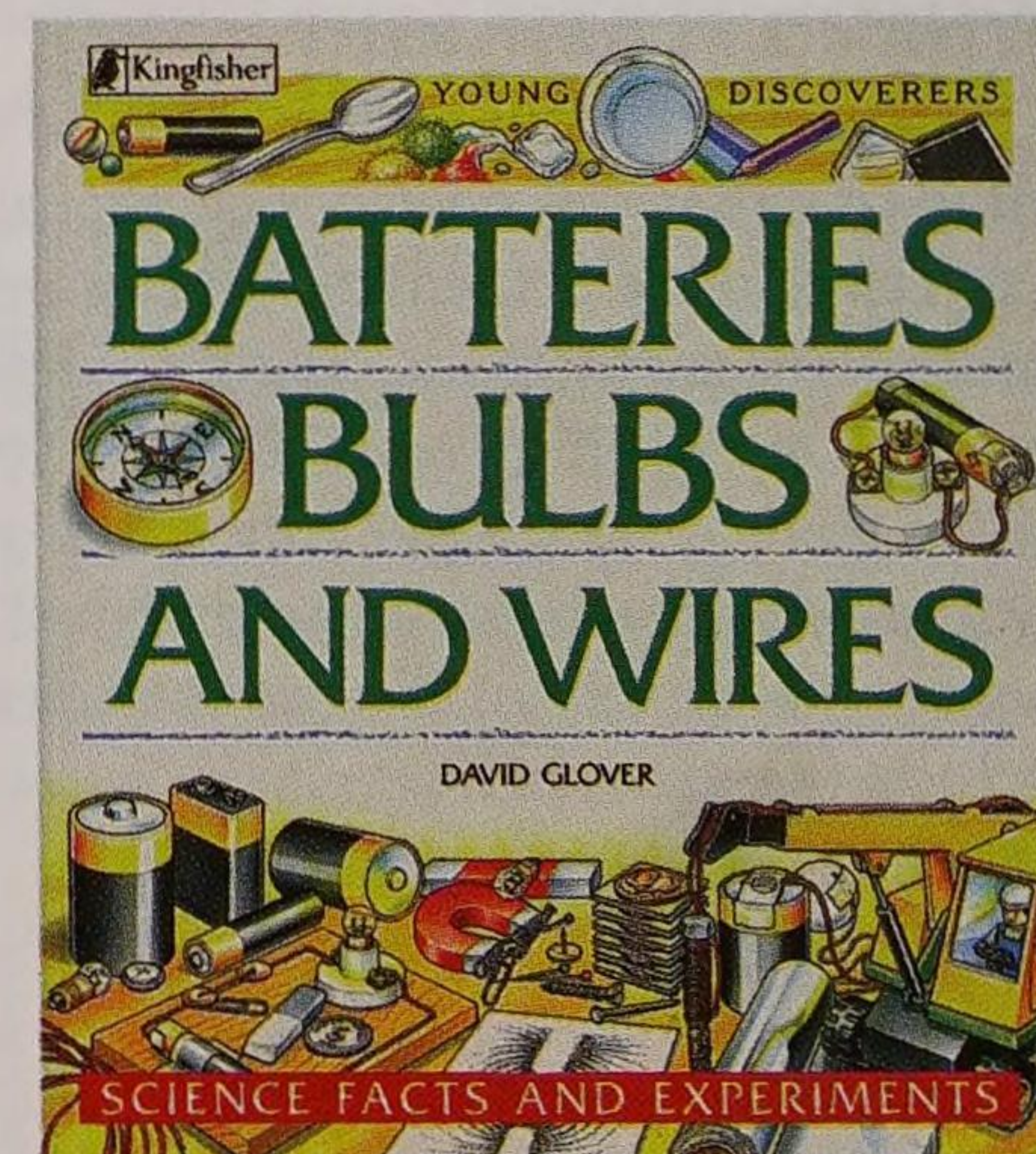
BATTERIES, BULBS, AND WIRES **New!**

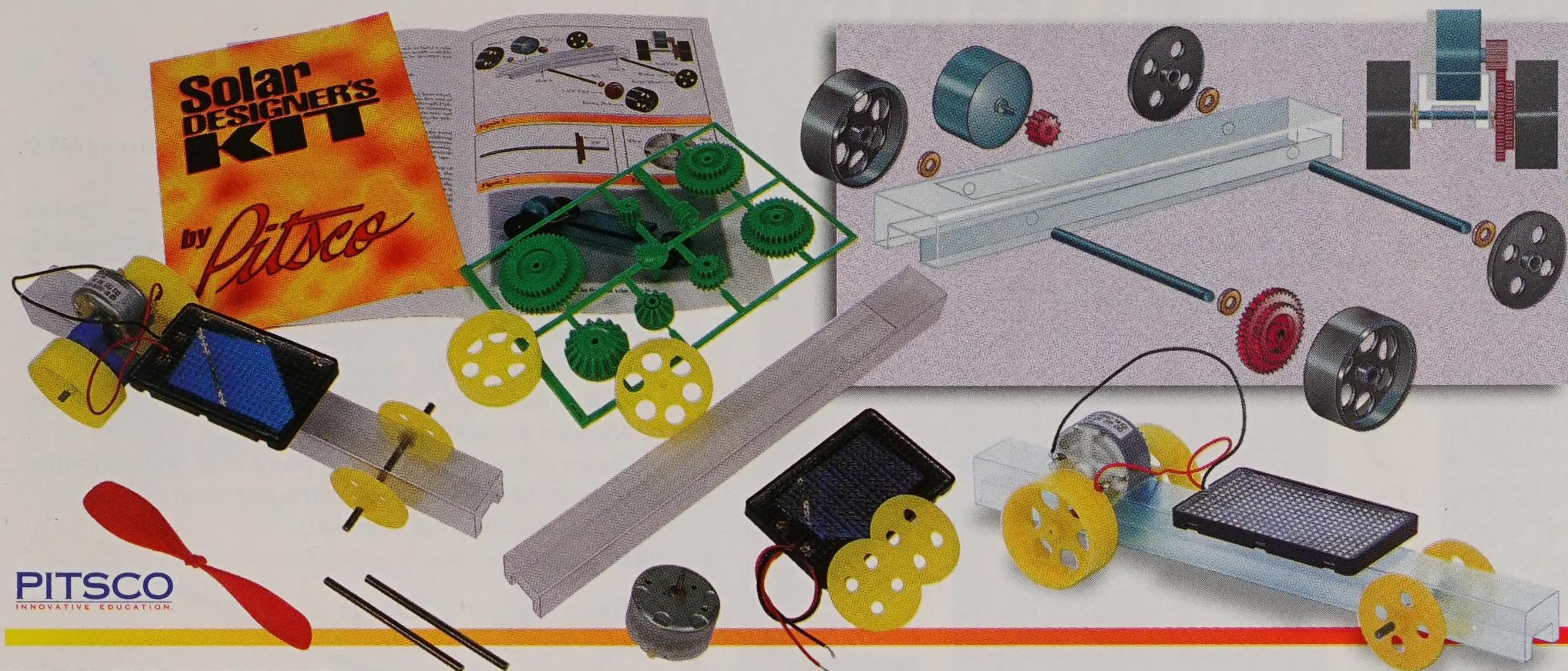
A great resource book! It's a take home and do book, which portrays the world of science in everyday life. It contains a wide range of safe, easy-to-do experiments, using simple household items, and "eye-spy" observations that give practical understanding to each subject. This is an ideal book for your wonderfully inquisitive young readers. Paperback, 31 pages.

Reading Level: Intermediate

N756070—\$7.95

Fax Orders Free
1-888-534-6784





SOLAR DESIGNER'S KIT

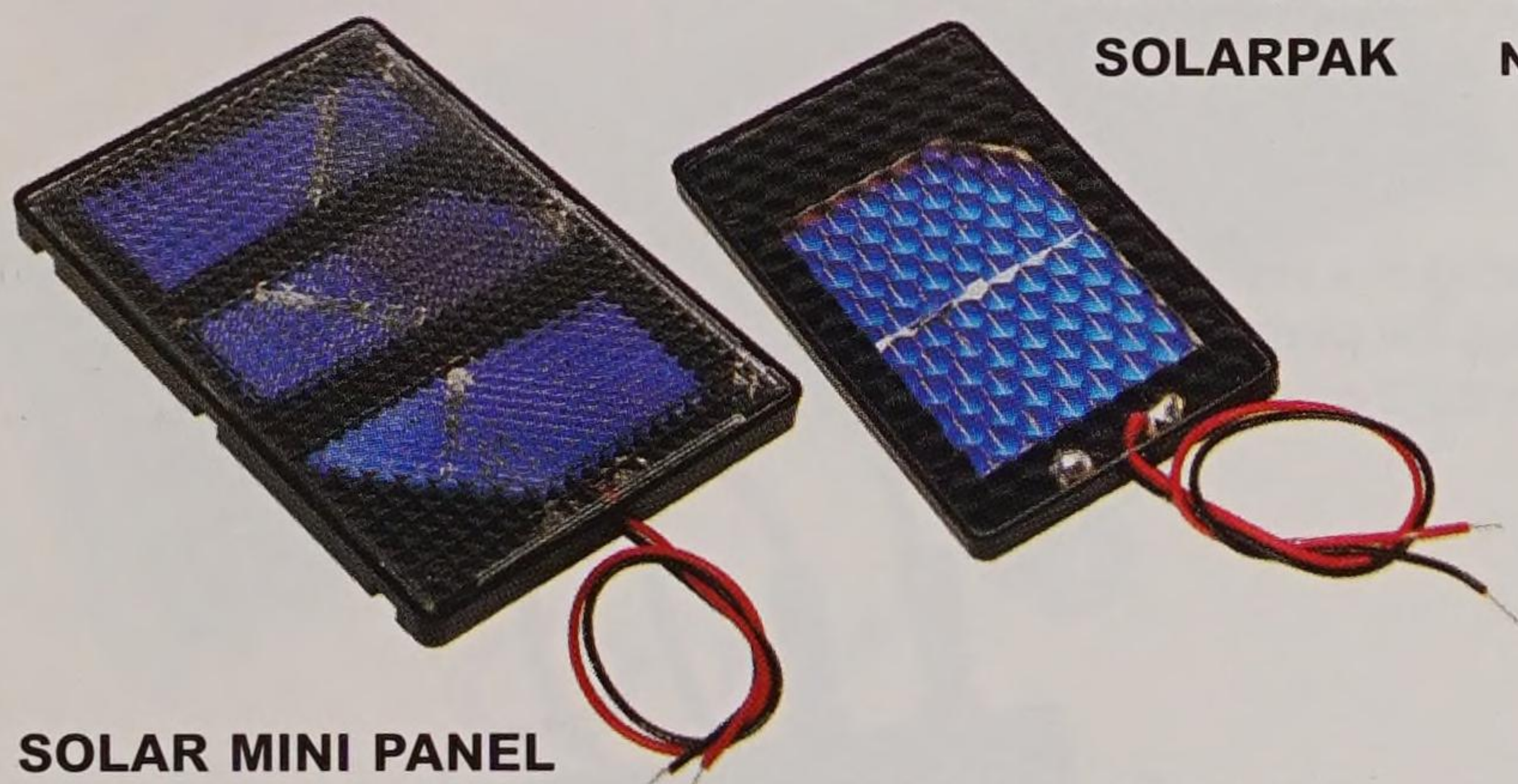
With this kit, a team of 2 students makes a solar-powered car using the supplied parts and instructions. The team may modify the car to include their own ideas. Other project ideas are suggested. Kit contains the following: solar panel (.45V 400 mA) 1-3/4" x 2-15/16", DC motor, plastic car body, Pitsco plastic gear font, 2 axles, 4 Pitsco wheels, 4 1/8" brass washers, propeller, and instruction guide. Car will travel under bright sunlight.

N750073—\$13.50

10 for \$121.50

SOLARPAK

N751417 (for 25 students)—\$295



SOLAR MINI PANEL

Hook up these solar panels to motors to make solar powered vehicles and other projects.

These solar cells are enclosed in plastic cases, so they are durable in your classroom. Sizes are 2-15/16" x 1-3/4", and 2-1/2" x 3-3/4".

N750074 (.45 V, 400 mA)—\$5.40

10 for \$48.60

N750077 (1.5 V, 200 mA)—\$10.95

10 for \$98.60

PITSCO
INNOVATIVE EDUCATION

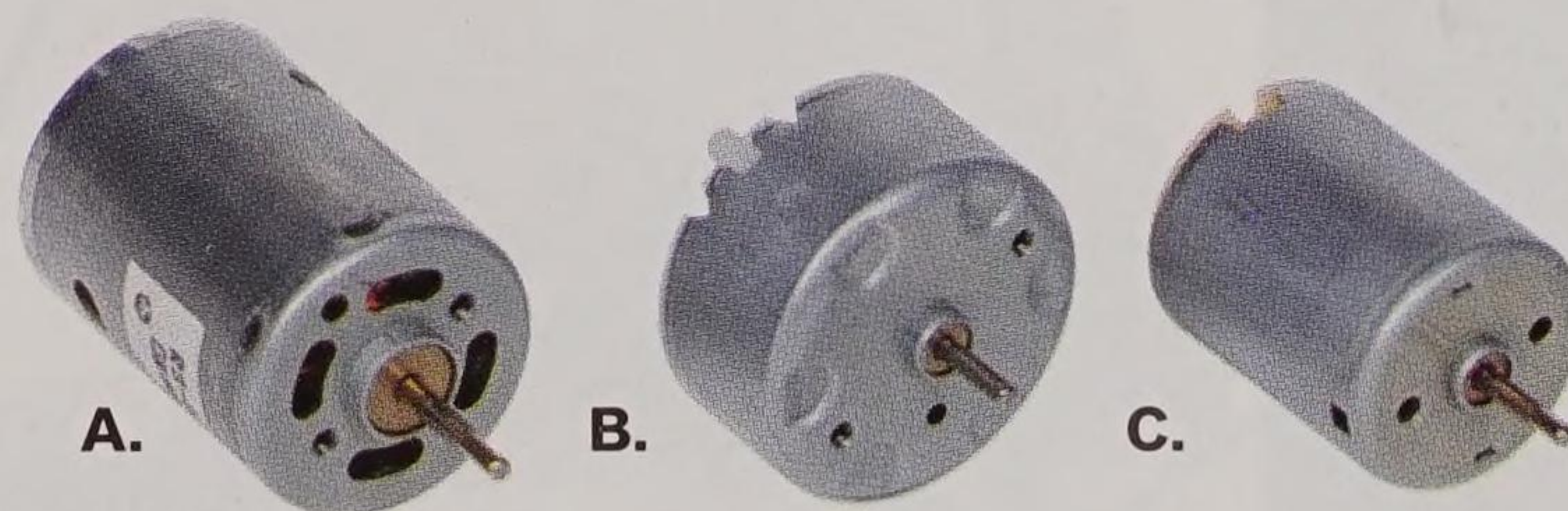
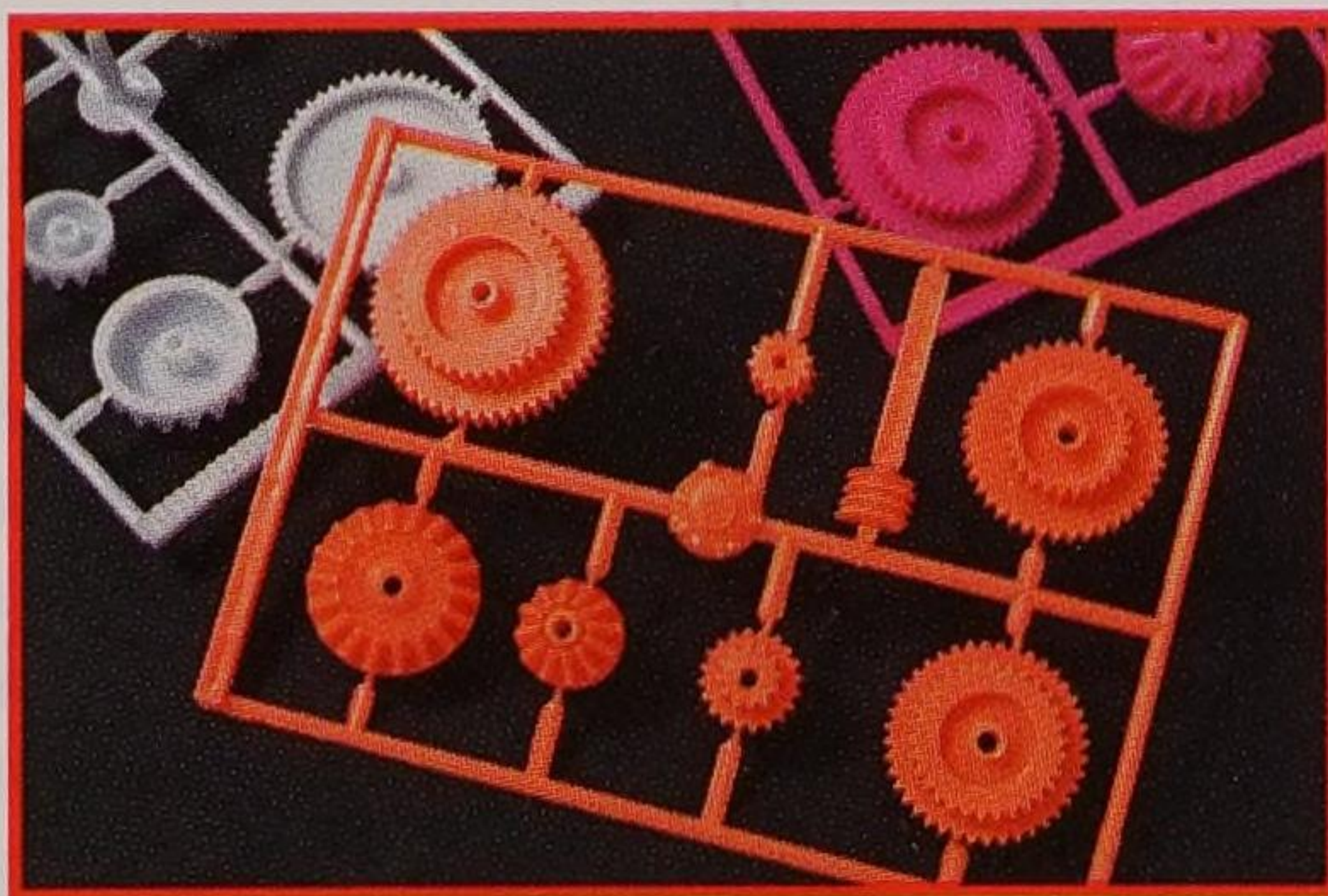
PLASTIC GEARS

Use with your inventions, vehicles, and other moving models. Gear hole is 1/8" (3mm) and will fit on 1/8" axles. The smallest gear has a hole (1/16" I.D.) that fits the shaft of our mini-motors.

N714841—\$5

10 for \$45

100 for \$405



A. MOTOR 385

A heavy duty motor with carbon brushes. It is an excellent choice for robotics design, model racing cars, R/C vehicles, or any other high torque low power consumption applications. 6-24 VDC, 1,300mA. No load speed 14,300 rpm, stall torque 7.71 oz./in.

N750076—\$4.50

10 for \$40.50

B. MOTOR 500

Use this motor with our PITSCO plastic gears. Smooth running motor with very low starting friction. Endless design possibilities. Operating range: 1.5- 4 VDC, 150 mA.

N750075—\$3.50

10 for \$31.50

C. MOTOR 280

A great little motor for small electric vehicles or solar racers. This is the motor specified by the Junior Solar Sprint competition! Operating voltage: 1.5 - 3VDC at 330mA.

N754428—\$1.75 each

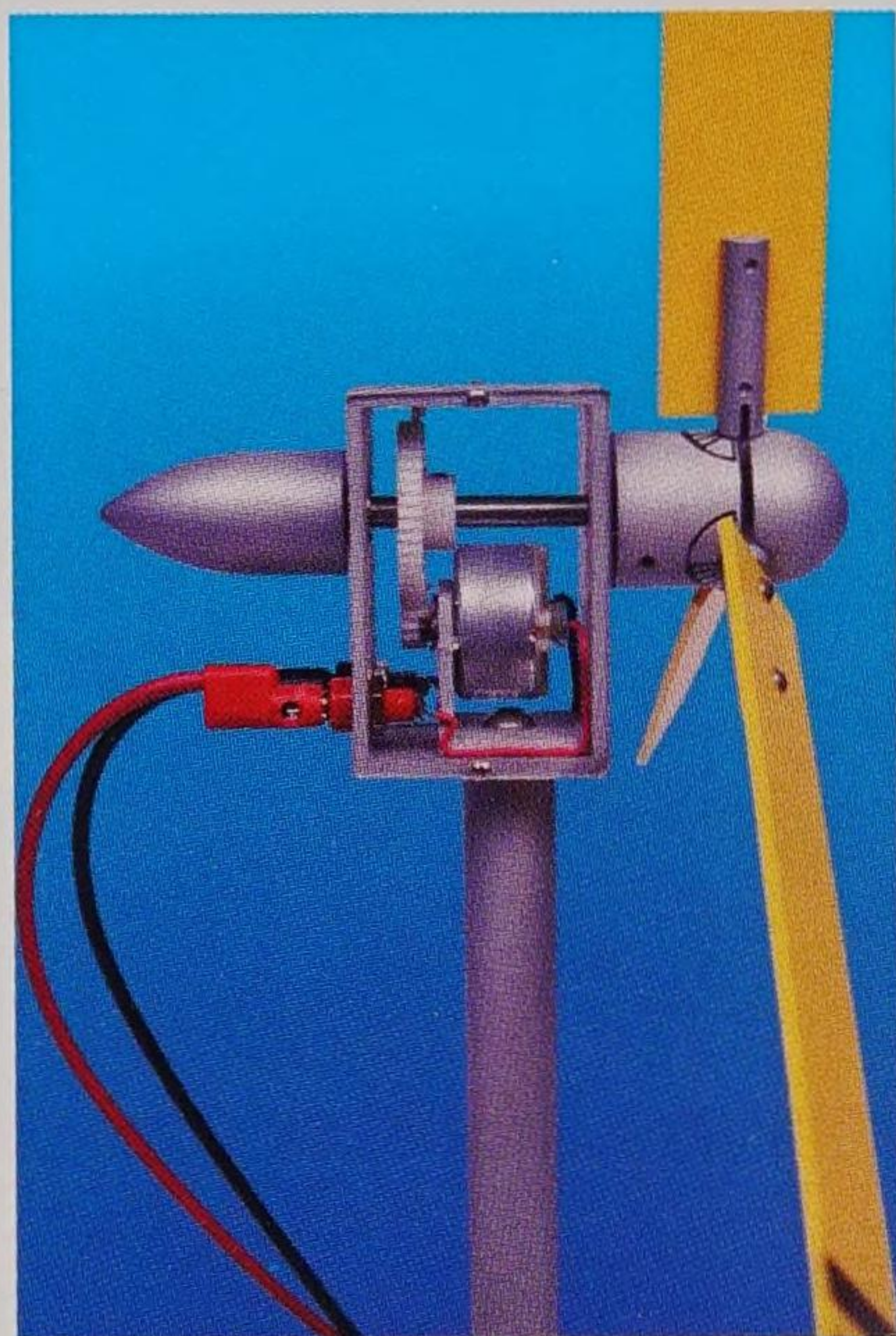
10 for \$15.80

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WIND DYNAMO

Education is what remains when we have forgotten all that we have been taught. Marquis of Halifax



Clear side panels enable viewing of generator drive system.

WIND GENERATOR **PITSCO** INNOVATIVE EDUCATION

Demonstrate the use of alternative energy to students by harnessing the wind to generate electricity! The PitSCO Windynamo converts the wind produced by a 20" box fan into electrical energy and sends it to a multi-function output module. The output module features a liquid crystal readout that displays the voltage produced and three output devices that convert the electricity into other energy forms. Sound, light, and mechanical energy (or any combination) can be observed with the push of a button. The Windynamo's propeller blades can be adjusted to various pitch angles.

Includes connecting wires and problem-solving activities that introduce students to the principles of wind power. Requires a 20" box fan (not included).

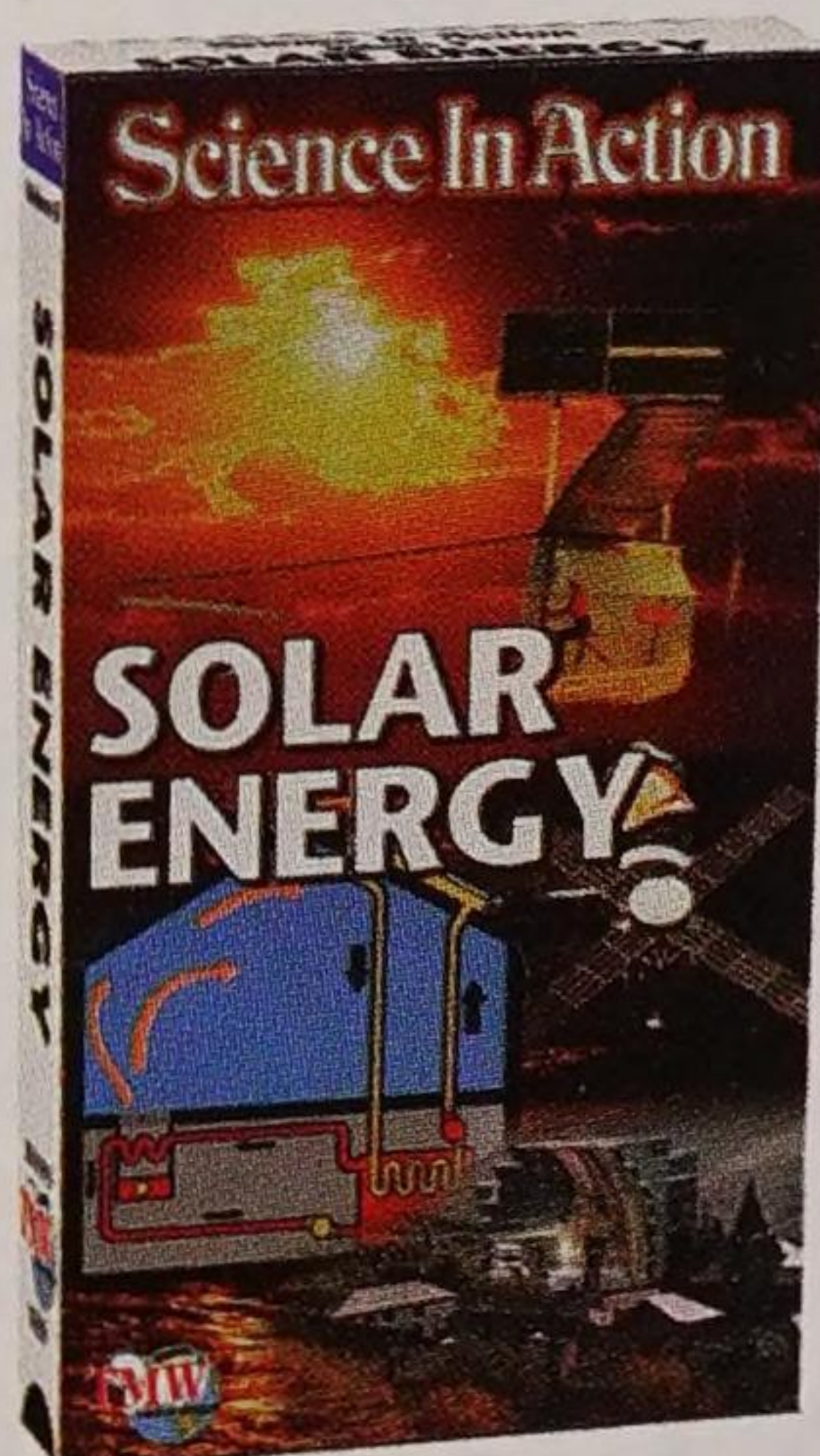
N713291—\$495

Blade angles are adjustable to optimize voltage output at various wind speeds.

Setup is a breeze (pardon the pun)—just plug in the 2 cords!

Electric current from generator can power 3 outputs—a speaker, light, and motor.

Heavy base prevents Windynamo from tipping.



New!

SCIENCE IN ACTION: SOLAR ENERGY

This volume of a six-volume series explores solar energy. In its three segments: "Capturing Solar Energy," "Transferring Solar Energy," and "Storing Solar Energy," students will learn how the sun's energy is captured and controlled to serve many important and efficient uses. Between each segment, questions are asked that challenge the students to think about and respond to what has been taught. In addition, there is a short breakpoint between each segment that gives the teacher the opportunity to discuss the section with the students. Time: 18 minutes.

Viewing Level: Middle School

N756125—\$19.95

Fax Orders Free
1-888-534-6784

Sun Sprint Deluxe



SUN SPRINT DELUXE KIT **PITSCO** INNOVATIVE EDUCATION

This kit includes the basic components (solar panel and motor) required by the Junior Solar Sprint competition, as well as wheels and materials to build a chassis and transmission! Kit contains motor, solar panel (4-3/4" x 13"), 12" of 22 ga. red wire, 2 small alligator clips, 4 neon colored wheels, 2 aluminum axles (5.5" in length), Pitsco gears, balsa sheet (3/32" x 4" x 12"), paper covered foam sheet (3/16" x 4" x 12"), 4 screw eyes, and instructions.

N754548—\$49.95

Sun Sprint



SUN SPRINT KIT **PITSCO** INNOVATIVE EDUCATION

This basic kit contains the official parts required by the Junior Solar Sprint competition! Includes the official electric motor and solar panel (4-3/4" x 13"). In addition, the Sun Sprint Kit also includes 12" of 22 ga. red wire and a pair of small alligator clips for easy hook up. Chassis, wheels and transmission not included.

N754547—\$39.95

SUN SPRINT SOLAR PANEL ONLY N754430—\$34

Alligator Clips

(pkg of 10) N754665—\$4.95

MOTOR 280

Operating voltage: 1.5 - 3VDC at 330mA.

N754428—\$1.75 each

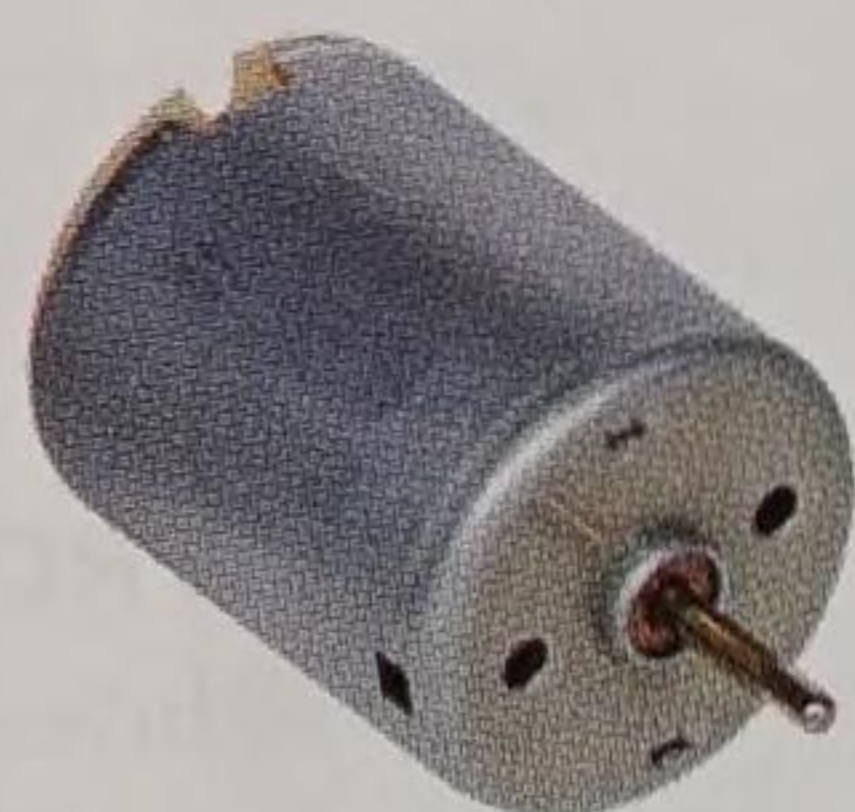
10 for \$15.80

N754713 (2) AA BATTERY HOLDER—\$1

SOLAR WHEELS

Smooth wheels with very low rolling resistance. 1-1/8" dia. with O-ring "tire". Fits 1/8" axle. Quarter not included. Package of 100.

N713340—\$25



SOLAR DESIGNER'S KIT **PITSCO** INNOVATIVE EDUCATION

Great as an introductory solar activity, students make a solar-powered car! Students may modify the car to include their own ideas. Other project ideas are suggested. Kit contains the following: solar panel (.45V 400 mA) 1-3/4" x 2-15/16", DC motor, plastic car body, Pitsco plastic gear font, 2 axles, 4 Pitsco wheels, 4 1/8" brass washers, propeller, and instruction guide. Car will travel under bright sunlight.

N750073—\$13.50

10 for \$121.50

SOLARPAK

N751417 (for 25 students)—\$295

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PITSCO **LEGO** **dacta**
PARTNERS IN INNOVATIVE EDUCATION

Teaching is painful, continual, and difficult work to be done by kindness, by watching and by praise, but above all by example.
John Ruskin

PITSCO
INNOVATIVE EDUCATION

SIMPLE CIRCUITS BOARD

Students learn the basics of simple series and parallel circuits with this hands-on activity board. Comes with a double-pole, double-throw switch, a DC motor, two lights, and a DC power supply (includes two "C" batteries).

Components are connected with screw/clamp type connectors and included jumper wires.

Unit is approximately 12"x15".

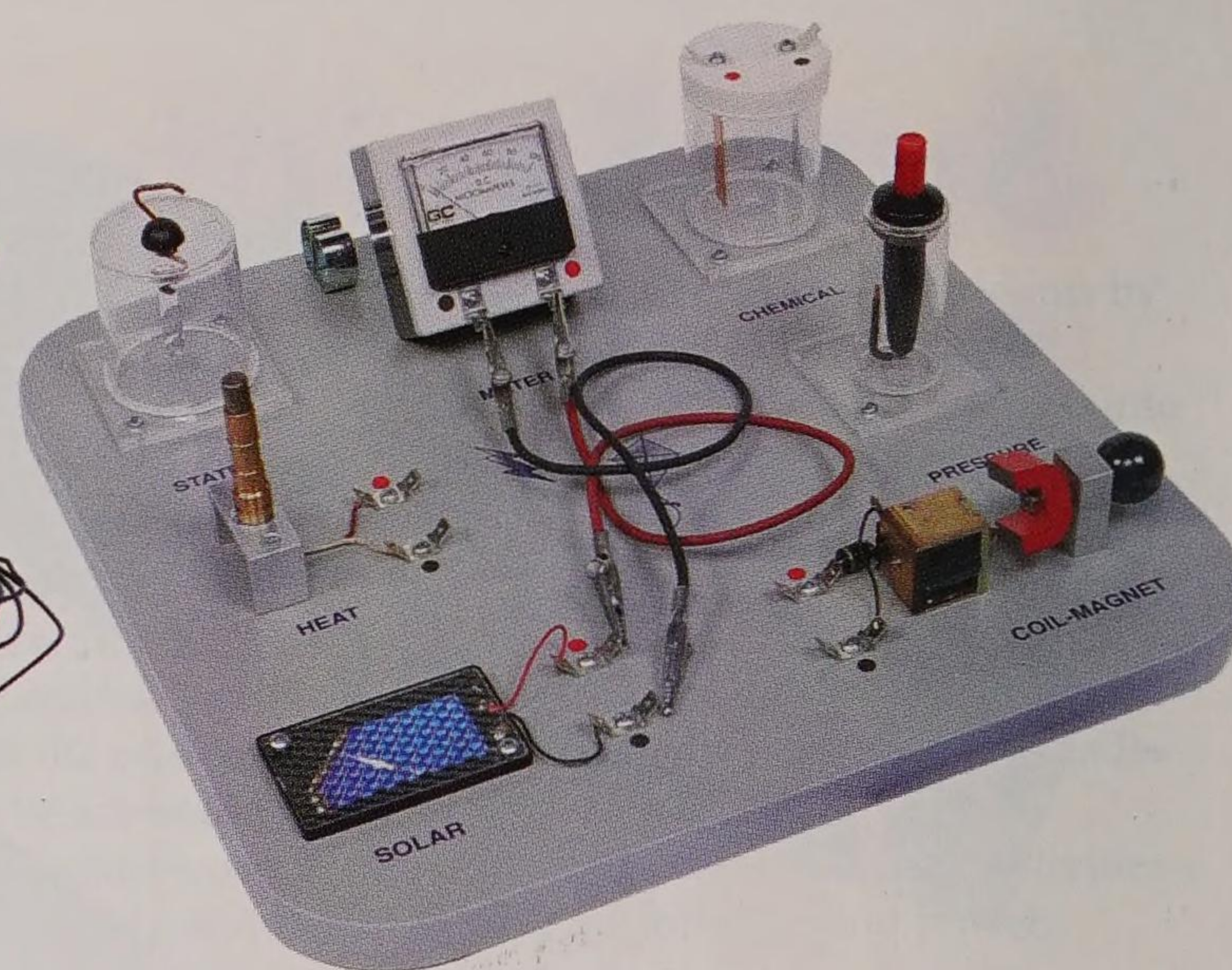
N754535—\$99

PITSCO
INNOVATIVE EDUCATION

BLINKY ROBOT KIT

Students place electronic components and learn soldering skills with this hands-on circuit board kit. By placing a variety of components—transistors, capacitors, LEDs, and resistors—and soldering them in a functional circuit, students build a robot board with intermittently flashing LEDs. All components, including the circuit board, are included along with step-by-step instructions. Battery not included.

N713294—\$6.95



WAYS TO MAKE ELECTRICITY DEMONSTRATOR

This innovative activity board demonstrates six ways that electricity can be produced—solar, heat, static, magnetic induction, pressure, and chemical. A built-in meter measures the current produced.

The six current producing devices and meter are mounted to a 3/4" x 14" x 14" laminated board. Large spade terminals make it easy to connect the devices to the meter. Includes test leads with alligator clips and instructions.

N713267—\$295

SOLDERING PENCIL

Compact, efficient, and featherweight. Stainless steel construction with heat-resistant handle. Twenty-five watt soldering iron develops up to 720°F. Narrow diameter gets into tight places. Replaceable nickel-plated tip for longer life. Includes convenient wire stand and instructions. UL approved. Includes a hot knife to cut through plastics.

N750112—\$13.95

SOLDER

60/40 rosin core solder. .032 dia., comes in 1/2 oz. tube dispenser.

N750787—\$3.95

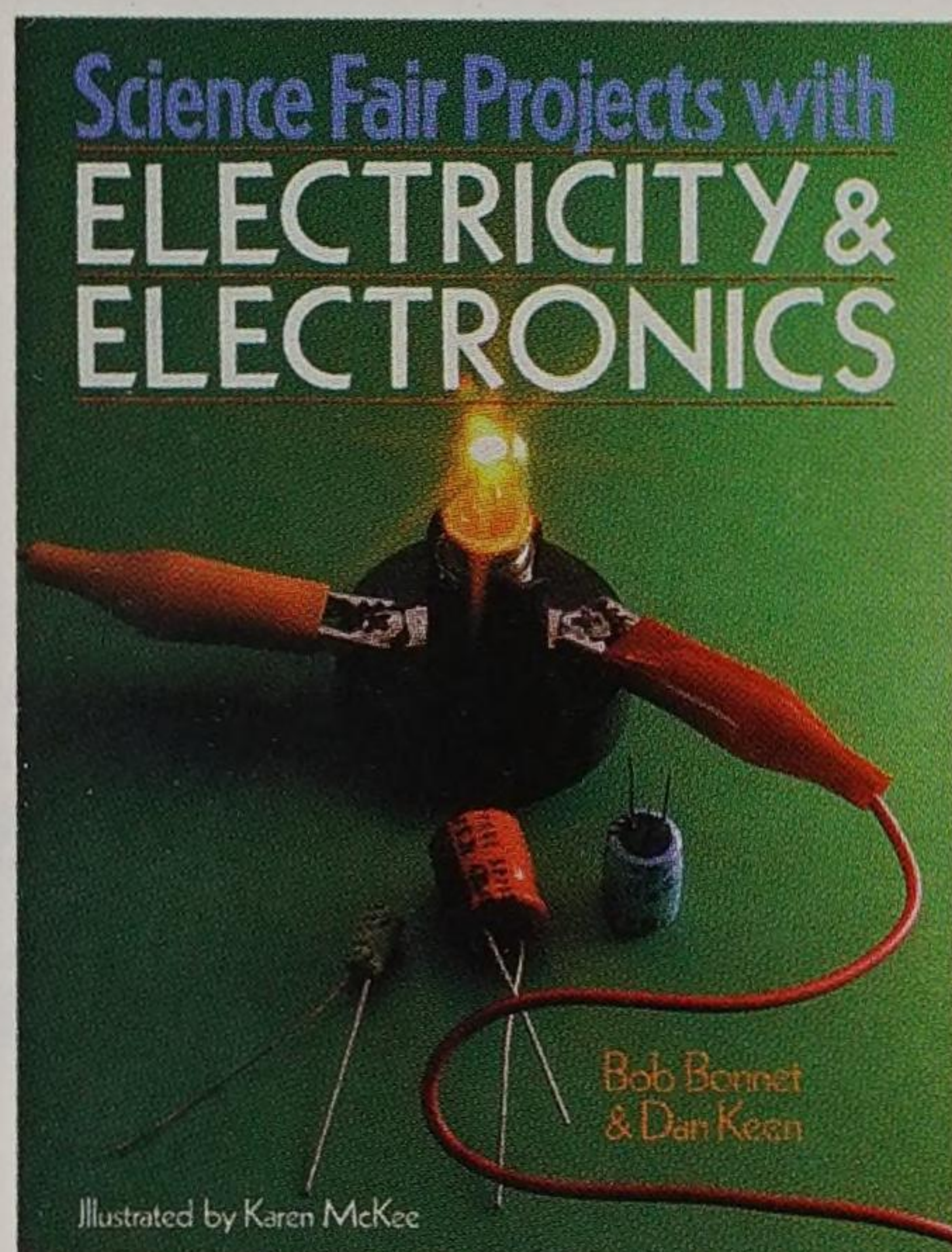
ELECTRONICS LAB KITS

Students work and learn their way through exciting, hands-on electronics experiments. They'll build great projects like burglar alarms and automatic night lights. Kit 1 is an introductory level kit, while Mr. Circuit Lab II is more advanced, delving into digital electronics. Kits contain excellent manuals, bread boards, and electronic components.

N750162 Mr. Circuit Electronic Lab—\$21.95

N751119 Mr. Circuit Electronic Lab II—\$34.90

Fax Orders Free
1-888-534-6784

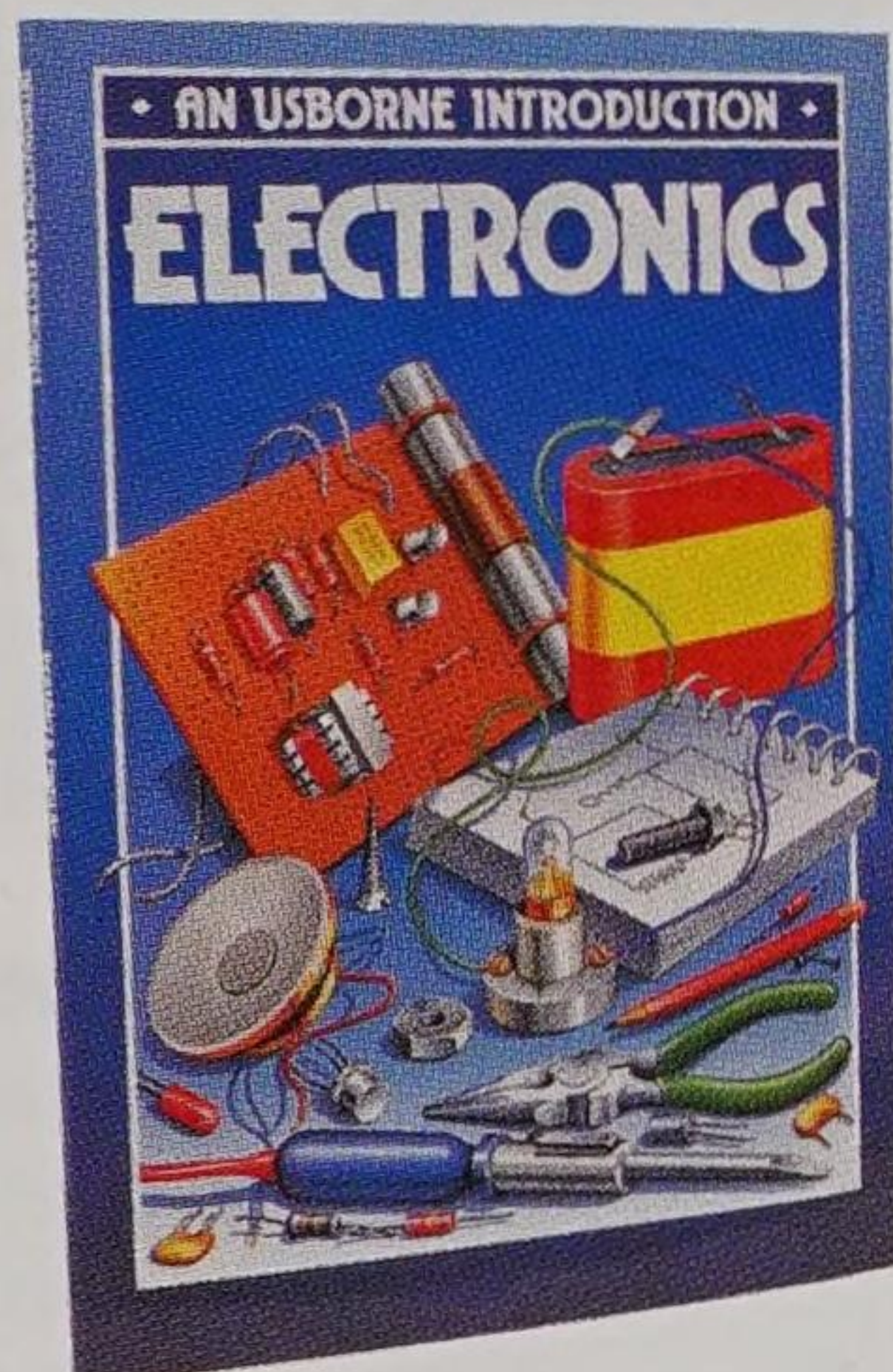


SCIENCE FAIR PROJECTS WITH ELECTRICITY & ELECTRONICS **New!**

Most good science students enjoy the excitement and experience of competing in science fair. This book contains 40 fantastic projects that explore electromagnet forces, static electricity, current flow, motors, resistance and capacitance, generating electricity, solid-state electronics, and frequency energy. This book features safety-minded projects that will impress classmates, parents, and science fair judges. "What If" questions follow each project. Paperback, 95 pages.

Reading Level: Middle School

N756118—\$8.95



USBORNE ELECTRONICS

Pam Beasant

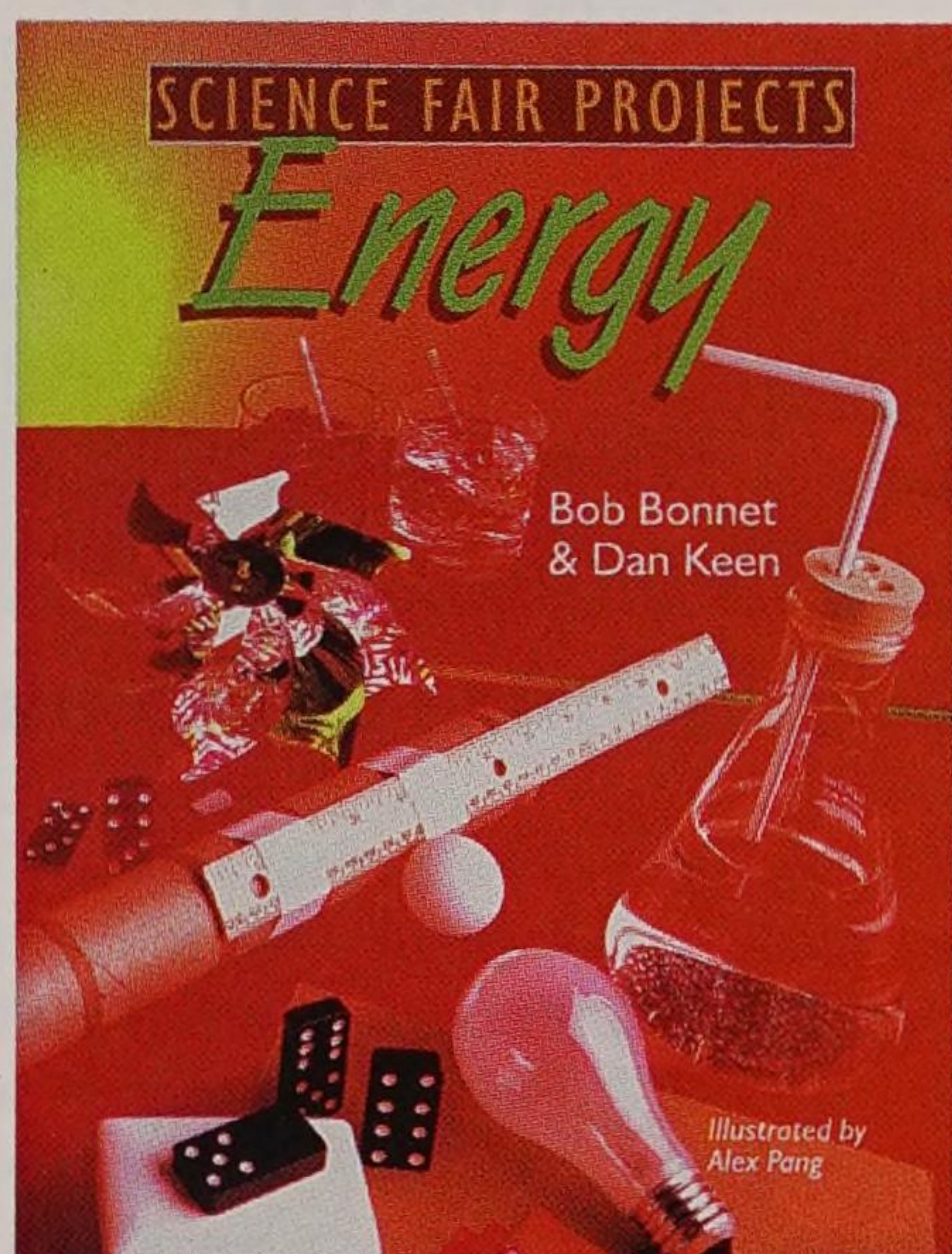
Lively step-by-step projects and colorful illustrations give the reader practical skills in understanding major principles of electronics. Many hints and tips are included to help beginners identify components, solder, read circuit diagrams, and test projects.

Paperback, 35 pages.

Reading Level: Middle School - High School.

N751089—\$6.95

10 for \$62.60



SCIENCE FAIR PROJECTS: ENERGY **New!**

What better place to look for a science fair project than in a demonstration of energy? Contained in this book are complete, simple, illustrated instructions for over 50 great experiments that deal with streams, storms, fossil fuels, how the body turns food into energy, and much more. The greatest form of energy of all is- student curiosity. This book will help satisfy some of it! Paperback, 95 pages.

Reading Level: Middle School

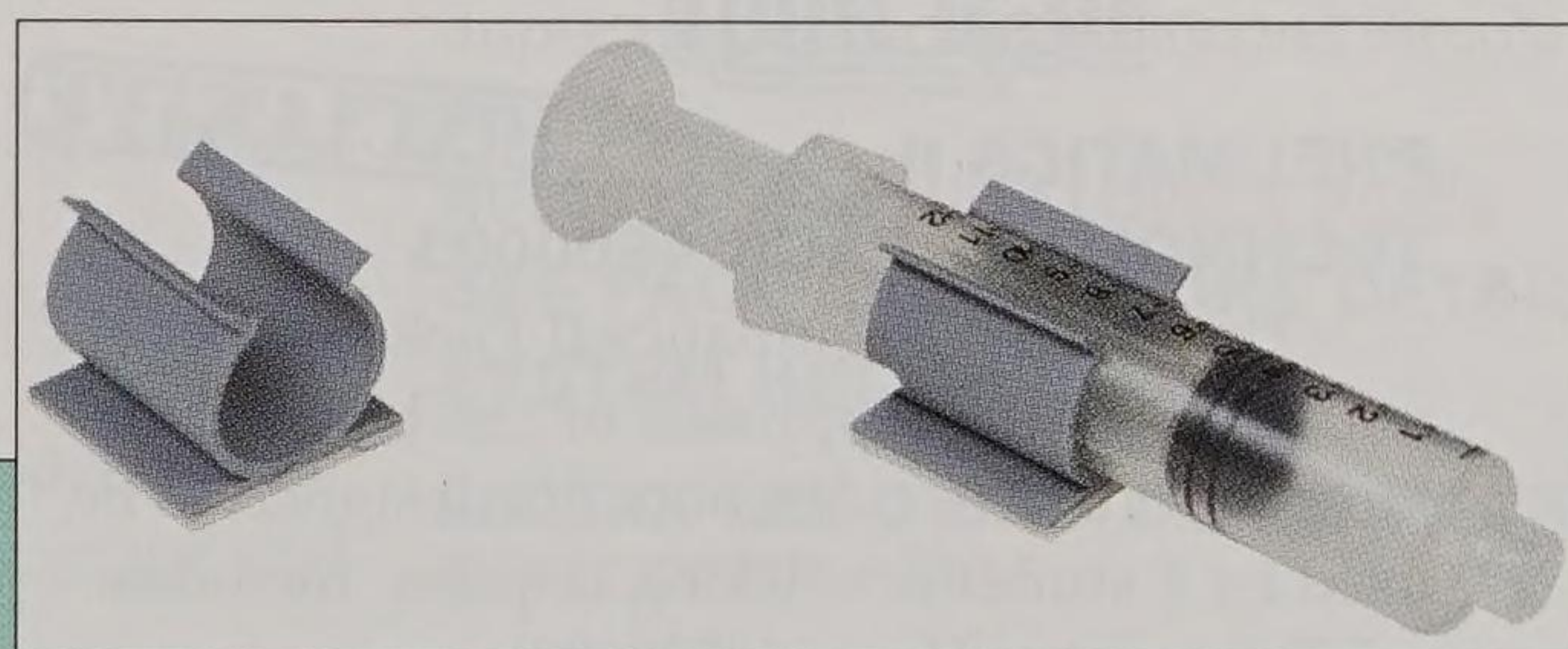
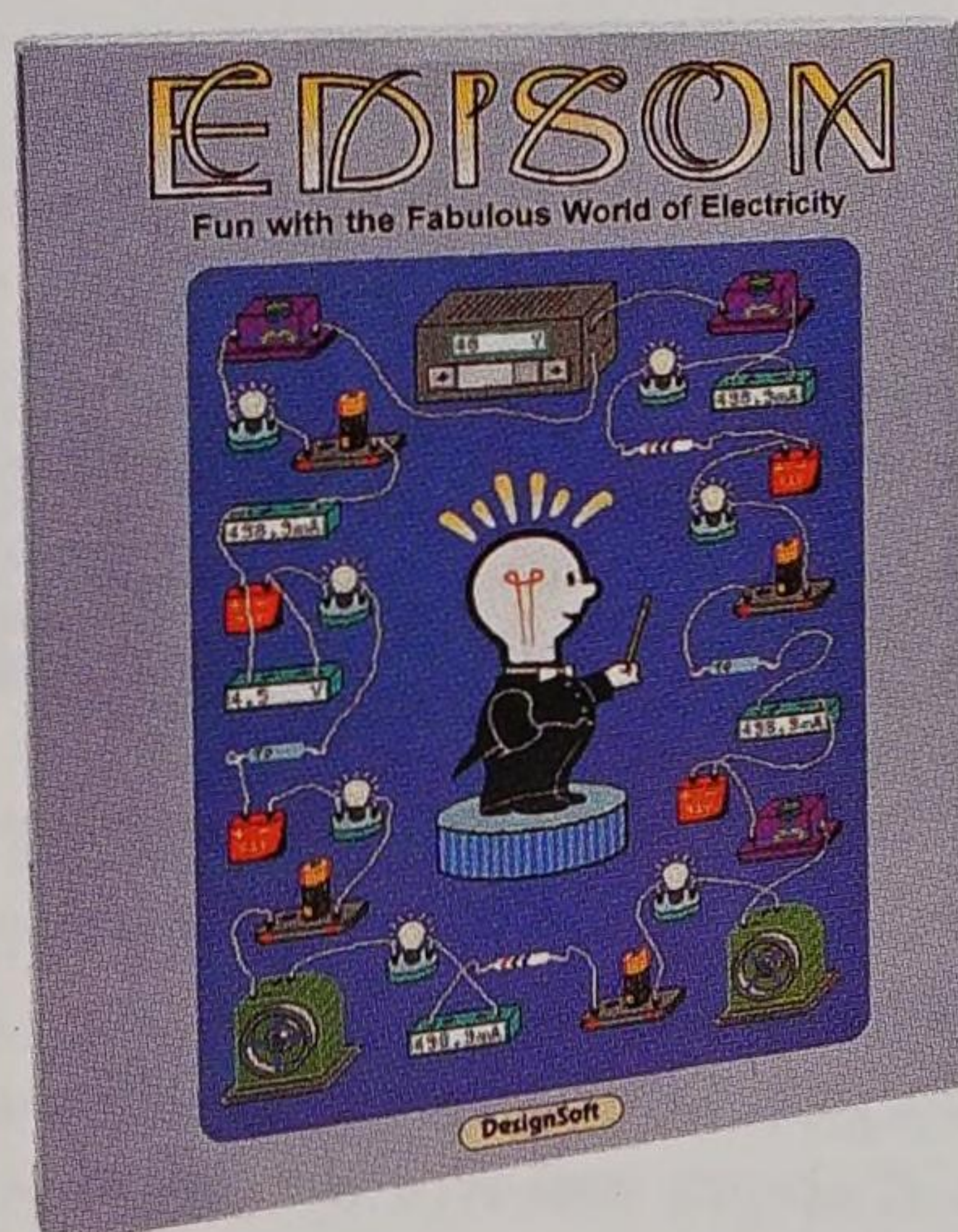
N756119—\$8.95

EDISON

Have fun learning electricity. Named after the world famous inventor, Edison allows you easy and joyful understanding of electricity. Conduct experiments in the on-screen laboratory using three-dimensional components and see what happens in full multimedia sound.

Make your own circuits – depending on the applied voltage, the electric bulb will burn brighter or fainter, and the electric motor will turn faster or slower. Overvoltage will cause a bulb to explode. These and other exciting multimedia effects help make Edison a realistic and fun simulation.

N753082 Windows—\$49



SYRINGE MOUNTING CLIPS

N750002 6cc (pkg of 10)—\$12.95

N750003 12cc (pkg of 10)—\$15.95

6CC SYRINGE

N750973—\$.50 ea

10 for \$4.50

30CC SYRINGE

N750975—\$1.15 ea

10 for \$10.40

12CC SYRINGE

N750974—\$.60 ea

10 for \$5.40

35CC SYRINGE

N752526—\$1.25 ea

10 for \$11.30

20CC SYRINGE

N752525—\$.85 ea

10 for \$7.70

SYRINGES FOR POWER SYSTEMS

Syringes are an excellent way to incorporate hydraulic or pneumatic power into your machine! Connected with tubing, syringes can activate arms, levers, grippers, and more. By combining large and small syringes in the same system, you gain mechanical advantage.

FLEXIBLE TUBING

Transmits energy from one syringe to another. 1/8" inside diameter.

N750972 (100' roll)—\$9

N753630 Double Stick Tape—\$6.50

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PNEUMATICS II #979633

208 elements

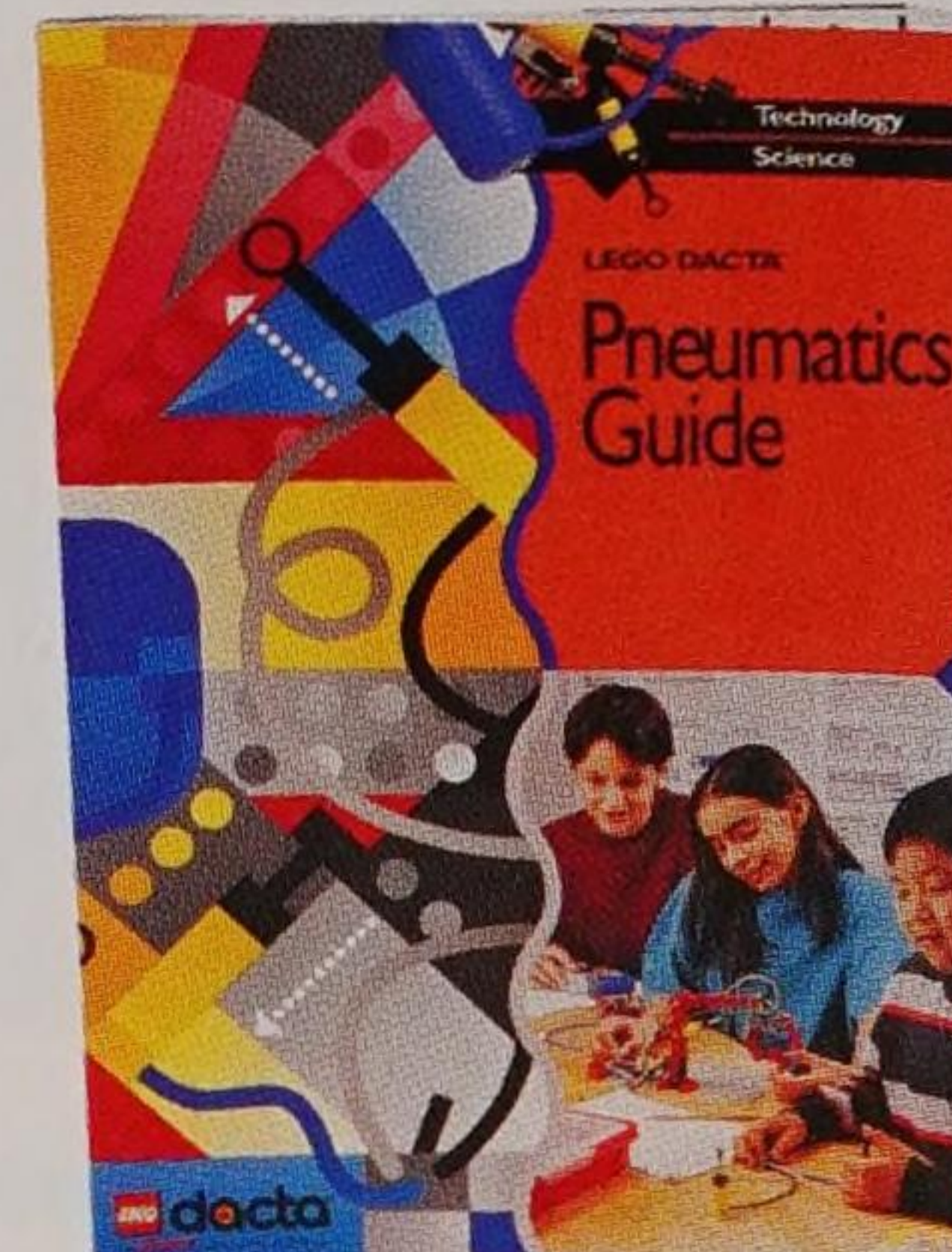
This set is designed for in-depth, hands-on learning of pneumatics. Students first build a compressor which operates all of the additional models: a simple circuit, sliding door, robot arm and jaws of life. The instructions include a photo of the real world version of each model. As an option, the models in this kit can be used with the LEGO-DACTA 9-volt computer control products.

- Designed to be used by students working in pairs
 - Includes 2 two-way pneumatic cylinders, 3 valves, a motorized compressor module and pneumatic tubing.
 - 36-page booklet with 5 building projects
 - 8-page supplemental booklet with optional ideas for computerizing the pneumatic models
 - Sturdy plastic storage case with clear compartmentalized tray
 - Clean-up and inventory made simple with pictorial parts list
- N979633—\$95.50**

EXCLUSIVE

EDUCATIONAL CONCEPTS

- practical hands-on experience with functional pneumatic systems
- interaction of pneumatic components
- operation of air compressors
- real-world applications for pneumatic systems



PNEUMATIC

TEACHER GUIDE #979634

EXCLUSIVE

This comprehensive Teacher Guide is organized into 2 modules, one for each of the 2 Pneumatic Sets. The Pneumatics I: Introduction to Air Power (#979617) activities are designed for the beginning level, while the Pneumatics II (#979633) are for more experienced students. Each module includes:

- Introduction and background information
- Pre-tests/post-tests with answers
- Activity copymasters
- Sample solutions
- Teacher notes

N979634 Set—\$20

Best Buy!

PNEUMATICS II: TECHNOLOGY PACK #900023

EXCLUSIVE

This special Pneumatics II Pack works well with the modular approach or can be used to jump-start a class collection. It's designed to be used by 6 students working in pairs. Includes:

- 3 Pneumatics II sets (#979633)
- Pneumatic Teacher Guide (#979634)
- Discovering Fluid Power video (#771145)

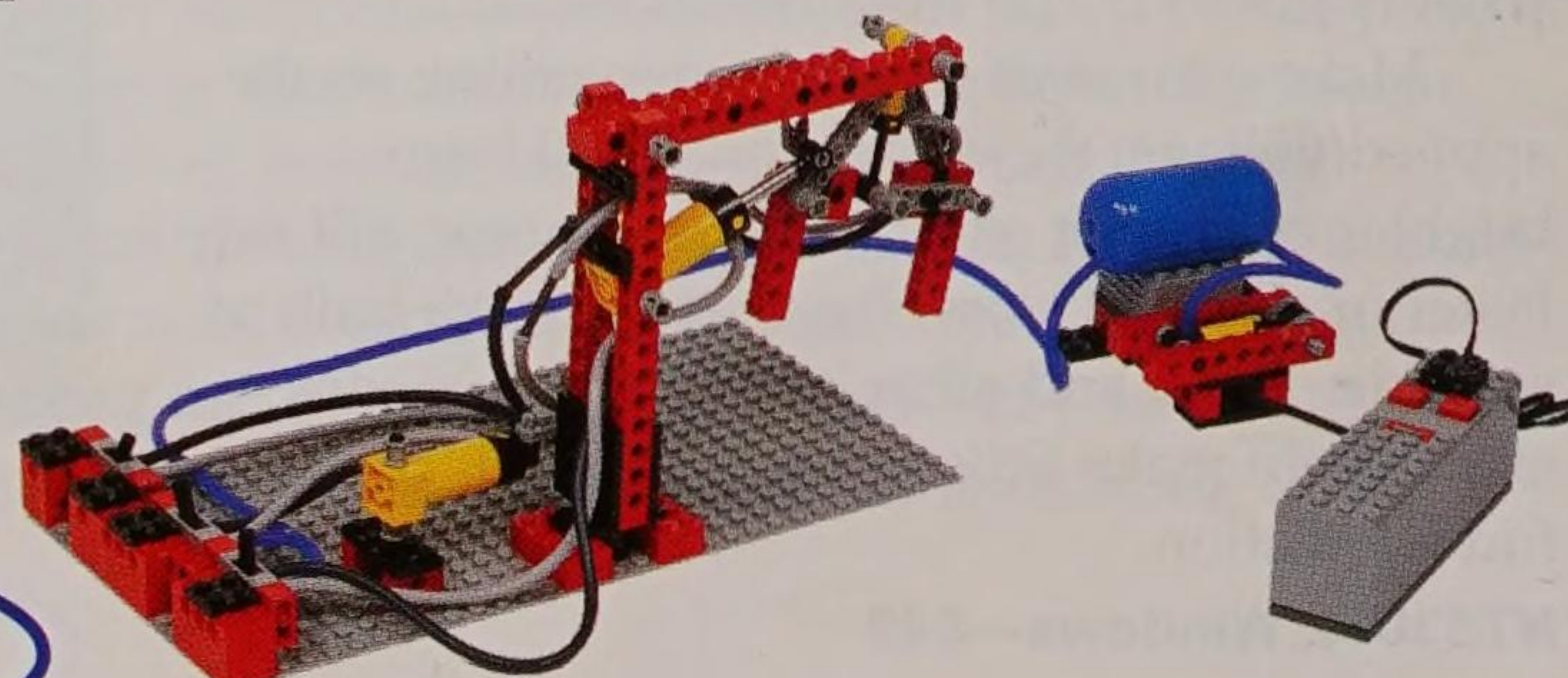
N900023—\$314



DISCOVERING FLUID POWER VIDEO #771145

This great 12-minute video covers the basic concepts of fluid power, touches on the scientific principles behind it, and emphasizes its capabilities. It shows real world examples of both hydraulic and pneumatic applications at work. Designed for science and math teachers and students, it's a super way to introduce the concepts of pneumatics.

N771145—\$25



Fax Orders Free
1-888-534-6784

The teacher who is attempting to teach without inspiring the pupil with a desire to learn is hammering on cold iron.
Horace Mann



EDUCATIONAL CONCEPTS

- operation of levers
- wheel and axle, pulley and gear system operation
- interaction of mechanical components
- hands-on application of simple machine principles
- practical understanding of how simple machines are used in everyday items
- automation and motorization

MOTORIZED SIMPLE MACHINES SET #979645

EXCLUSIVE

219 elements

This set is a wide-ranging tool for exploring simple machines that adds the concept of motorization. A 9-volt motor enables students to bring their projects to life. Through the building of realistic motorized models, students develop a strong understanding of mechanical principles.

- Designed for students working in pairs
- Includes a 9-volt motor, battery box and connecting lead
- Sturdy plastic storage tray with lid for easy classroom cleanup, inventory and storage
- 8 green cards with building projects for exploration of simple machines concepts
- 10 blue cards for applying simple machines concepts by building models of real world devices: folding lawn chair, drawbridge, conveyor belt, turnstile, crane and more

N979645 Motorized Simple Machines Set—\$98

N979630 Non-Motorized Simple Machines Set—\$74.25

N979615 9-Volt Motor and Battery Box—\$29

SIMPLE AND MOTORIZED MACHINES ACTIVITY PACK #979631

This literature pack is designed to provide teachers the materials they need to teach students the principles of simple and motorized machines using the Motorized Simple Machines Set #979645. The pack includes:

- An 80-page Teacher Guide divided into 6 progressive units. The guide provides background information, key words and concepts, sample solutions, and ideas for additional activities.
- 31 worksheet copymasters covering activities which focus on exploring, investigating and problem solving; each worksheet is designed to take approximately 45 minutes.

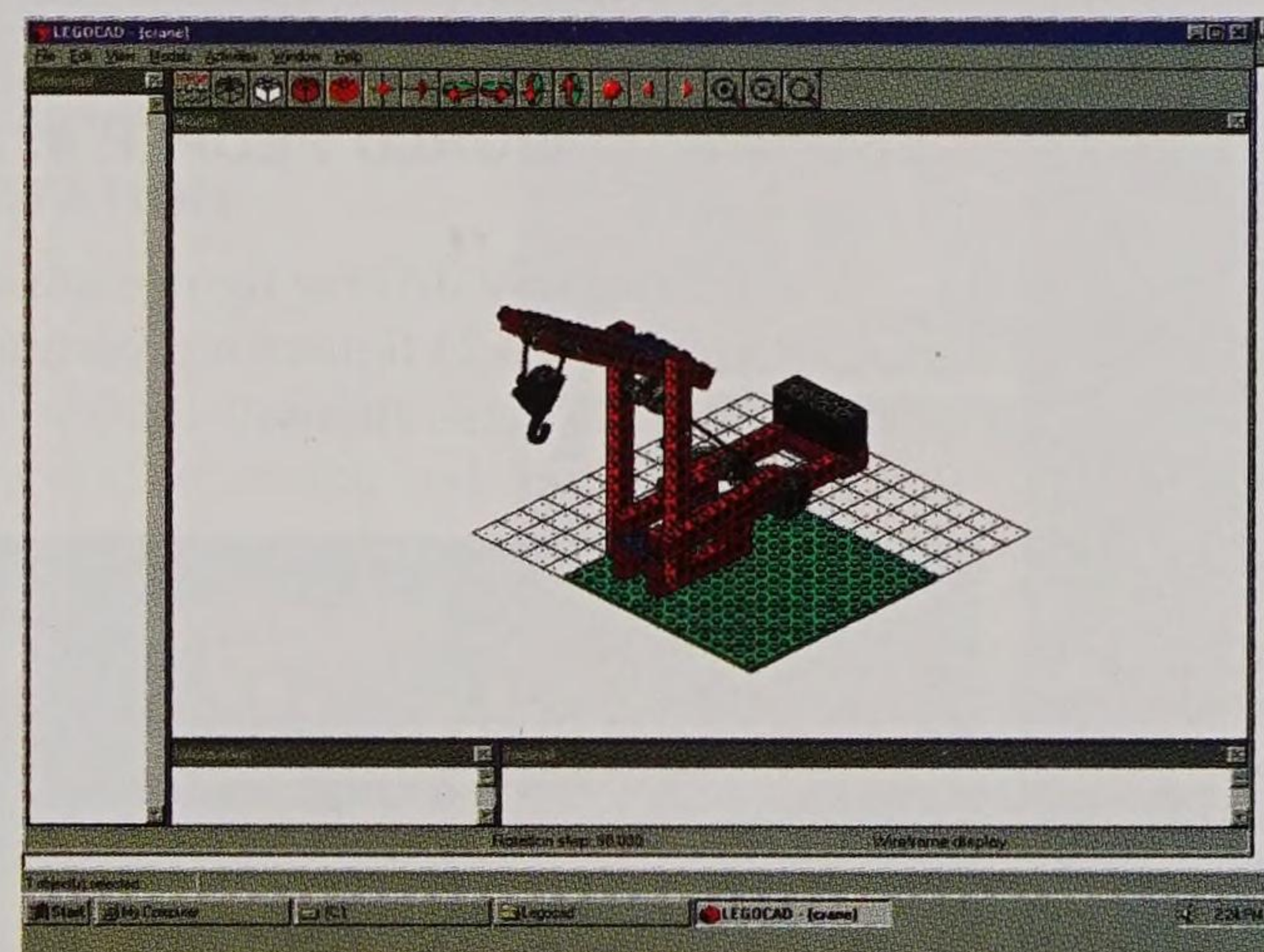
N979631—\$39.75

Professional staff development
available in most states.
Call for details. 1-800-362-4308



Call Us Toll Free
1-800-362-4308

LEGO Technic



LEGO® CAD: SIMPLE MACHINES DESIGN SOFTWARE FROM AUTODESK® #900033

Macintosh/Windows

This exciting new software from LEGO Dacta and Autodesk, Inc. empowers students to design their own LEGO models using virtual LEGO elements. With 3-D computer images of pieces from the LEGO Dacta Motorized Simple Machines Set (#979645) your students will build virtual on-screen models that can be duplicated using the Motorized Simple Machines Set (#979645).

N900033—\$49 NEW LOWER PRICE

SEE PAGE 33 FOR MORE DETAILS AND SYSTEM REQUIREMENTS

**9000XX LEGO CAD CLASS PACK—\$1,255
NEW LOWER PRICE**

**LEGO CAD SOFTWARE & SITE LICENSE
#900038**

N900038 Mac/Windows—\$249 NEW LOWER PRICE

**LEGO CAD ACTIVITY GUIDE: THE SHIPWRECK OF THE MISS ADVENTURE
#900034**

N900034—\$20.50

MOTORIZED SIMPLE MACHINES TECHNOLOGY PACK #901185

Best Buy!

This pack contains enough materials for 10 students working in pairs, plus free teacher support materials. Includes:

- 5 Motorized Simple Machines Sets (#979645)
- Free Simple and Motorized Machines Activity Pack (#979631)

N901185—\$490

PITSCO **LEGO dacta**
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What sculpture is to a block of marble, education is to a human soul.

Joseph Addison



LEGO DUPLO WORLD PEOPLE #779171 **New!**

24 elements

These culturally diverse figures are a must for every preschool. Includes 24 figures representing four ethnic groups and three generations.

N779171—\$40.75



LEGO DUPLO COMMUNITY VEHICLES #779177

25 elements

Includes seven hardworking community vehicles and seven articulate figures. A great addition to any LEGO DUPLO collection.

N779177—\$33.25



UNIVERSAL SCHOOL SET #779453 **New!**

690 elements

An excellent resource for a wide array of building activities. Includes a mixture of basic bricks and pieces like hinges, wheels, moveable platforms, and windows. The five full-color idea cards have building hints and topic related models in contexts, including robot arms, grippers, moon-base vehicles, wheeled dragons and airborne vehicles. The set also includes a sorting tray and snap-lid storage case.

N779453—\$73.75



LEGO DUPLO PUSH TRAIN #779139 **New!**

78 elements

All aboard! Keep on track with this train set. Includes two locomotives and four wagons, along with 32 sections of track, one diamond crossing, one rail crossing, and much more.

N779139—\$78.75



LEGO DUPLO RAILS #779146 **New!**

16 elements

Sometimes you need a bit more track to make the train go where you want it to go. Includes two points, six straight rails, and six curved rails.

N779146—\$23.50



LEGO SYSTEM TRAFFIC SIGNS #779301 **New!**

178 elements

Start road safety and traffic education! Here are 16 different recognizable signs together with fences.

N779301—\$25.25

Fax Orders Free
1-888-534-6784

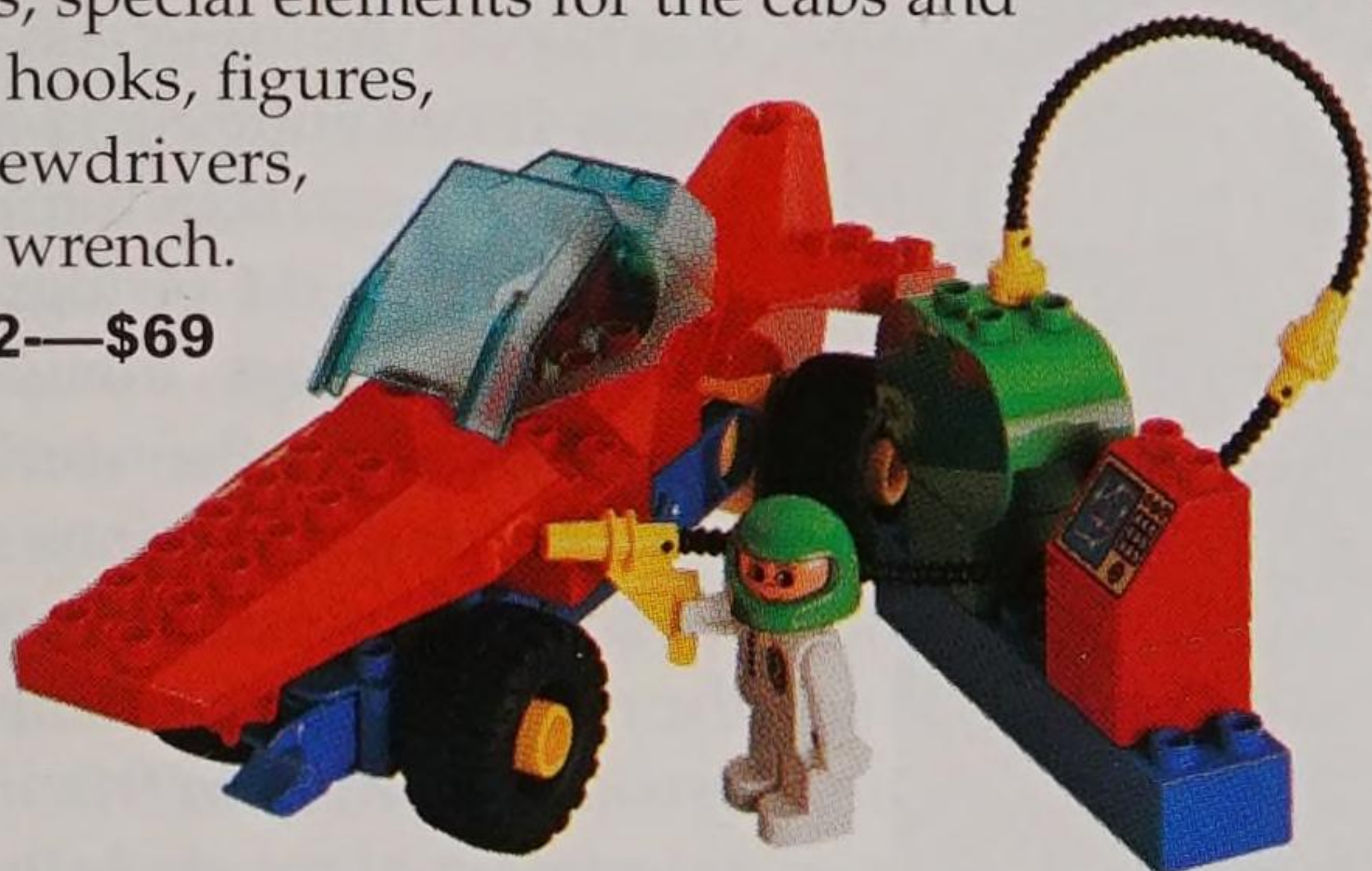


LEGO DUPLO TOOLO VEHICLES #779122

76 elements

Any heavy transport vehicle or any other large construction machine that lifts, turns, or bends can be built with this set: beams and wings with built-in screws, special elements for the cabs and buckets, hooks, figures, three screwdrivers, and one wrench.

N779122—\$69

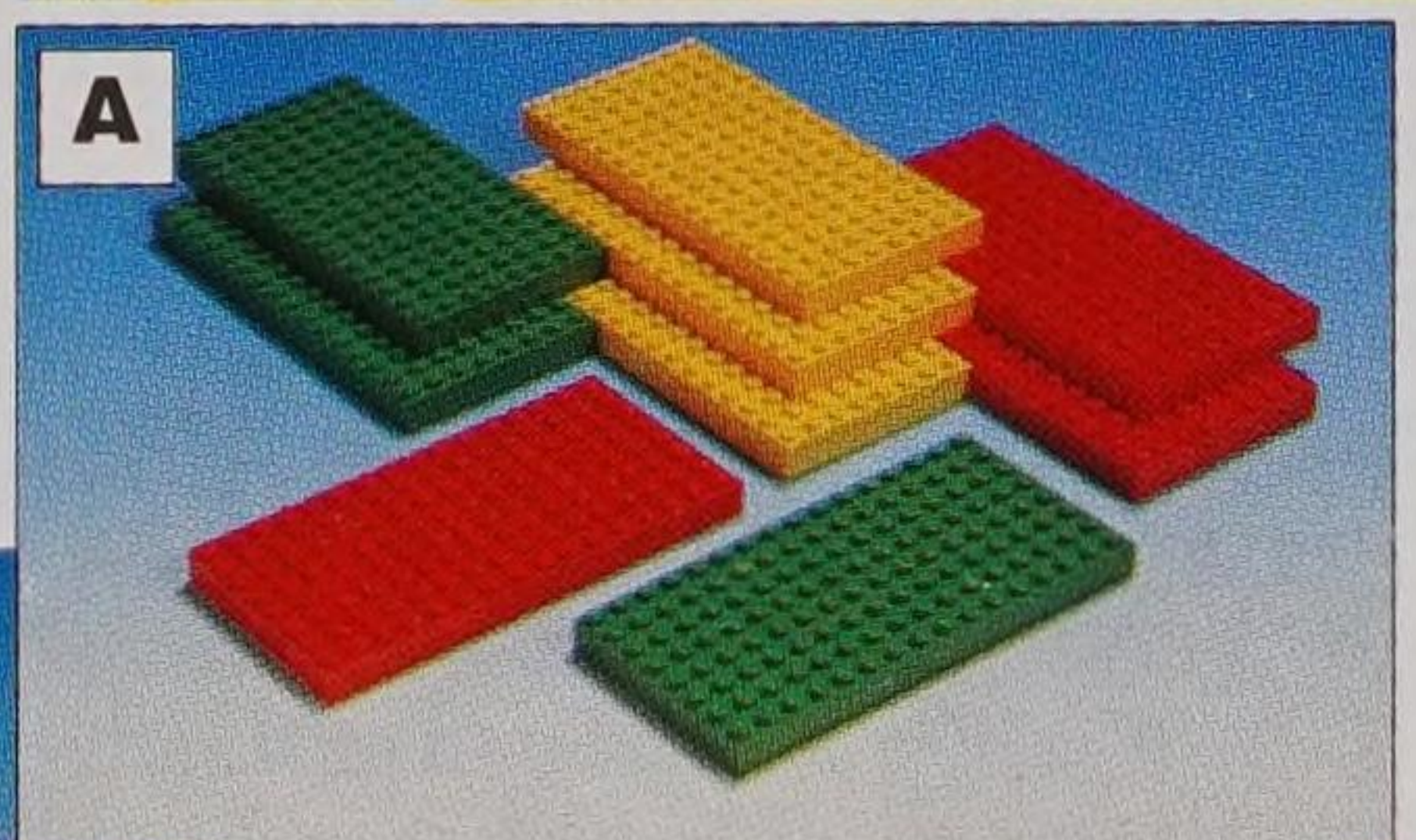


LEGO DUPLO TRANSPORTATION VEHICLES #779178

32 elements

Includes six vehicles, two trailers, and six LEGO DUPLO figures. Covers rail, air, water, and road transportation.

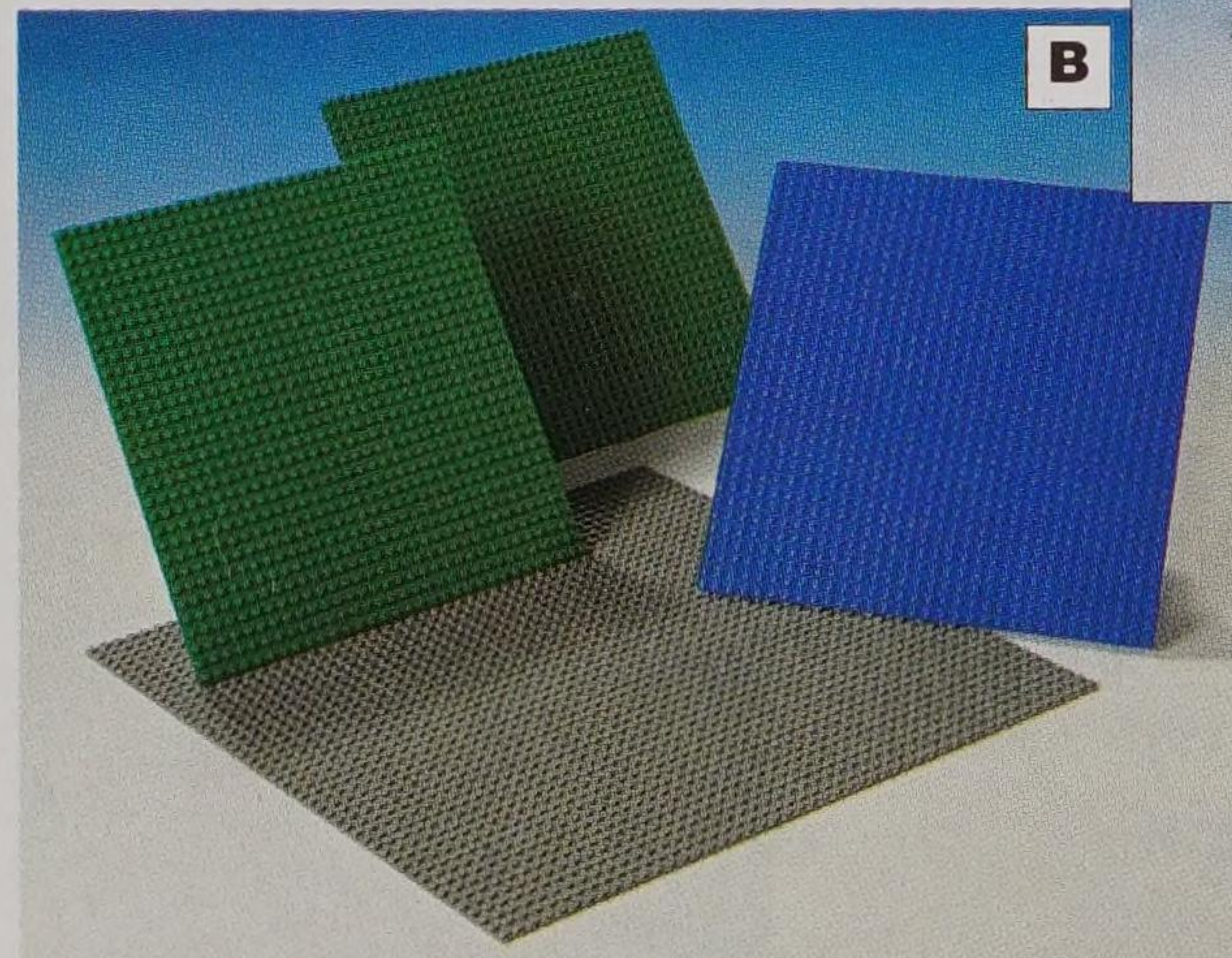
N779178—\$36



A. SMALL LEGO SYSTEM BASEPLATES #779279

LEGO creations work much better with a baseplate foundation, and this set includes nine baseplates (6 x 12.5 cm) in three different colors.

N779279—\$13.25



B. LARGE LEGO SYSTEM BASEPLATES #779286

Children need a foundation to build on, and each durable baseplate forms a solid base for all LEGO building bricks. Includes one gray 38 x 38 cm baseplate, two green 25 x 25 cm baseplates, and one blue 25 x 25 cm baseplate.

N779286—\$21.75



LEGO SYSTEM COMMUNITY VEHICLES #779369

413 elements

Follow the simple building instructions (or use your own imagination) to create a variety of sturdy vehicles including a recycling truck, a rescue rig with copter, a construction crew, a fire ranger, and much more. Suitable for children 5 years and older.

N779369—\$53.75



C. LEGO TECHNIC RACERS #779380

594 elements

Children 8 years and older can race the two pull-back cars or build other "cool" vehicles.

N779380—\$64.75

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PITSCO **dacta**
PARTNERS IN INNOVATIVE EDUCATION

The potential possibilities of any child are the most intriguing and stimulating in all creation.
Ray L. Wilber

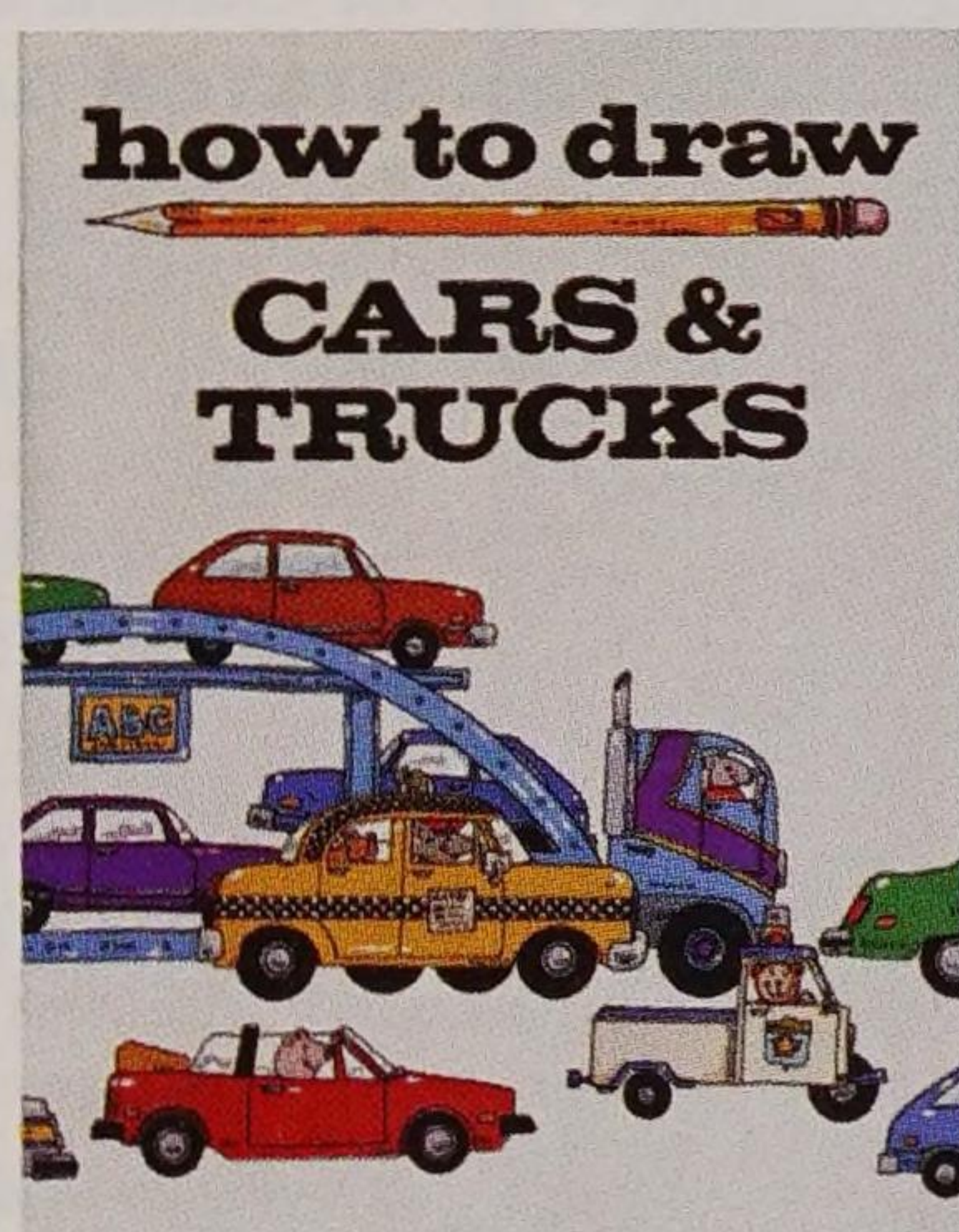
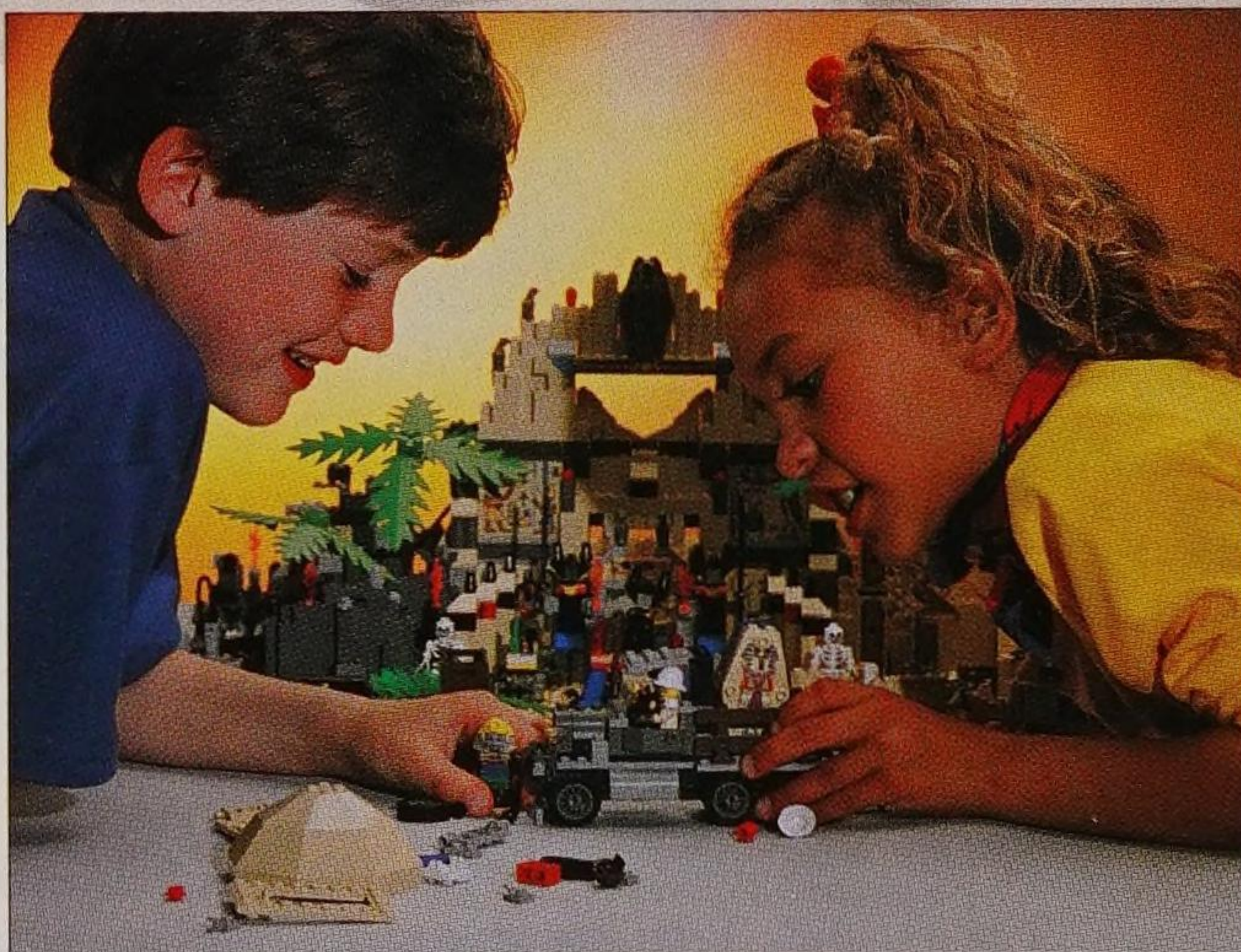


LEGO SYSTEM **New!** ADVENTURERS SET #779377

855 elements

The children can build Temple of Doom, hot-air balloon, airplane, and trucks to explore the secrets of the past. 7 years and older.

N779377—\$89.25



HOW TO DRAW **New!** CARS & TRUCKS

Everyone likes to draw cars and trucks. This wonderful instruction book gets the youngest students on the road to becoming a designer of transportation. Extremely simple instructions and drawings makes this a must for the primary classroom.

Paperback, 31 pages.
Reading Level: Primary

N756127—\$2.95



LEGO SYSTEM **New!** BASIC HARBOR #779289

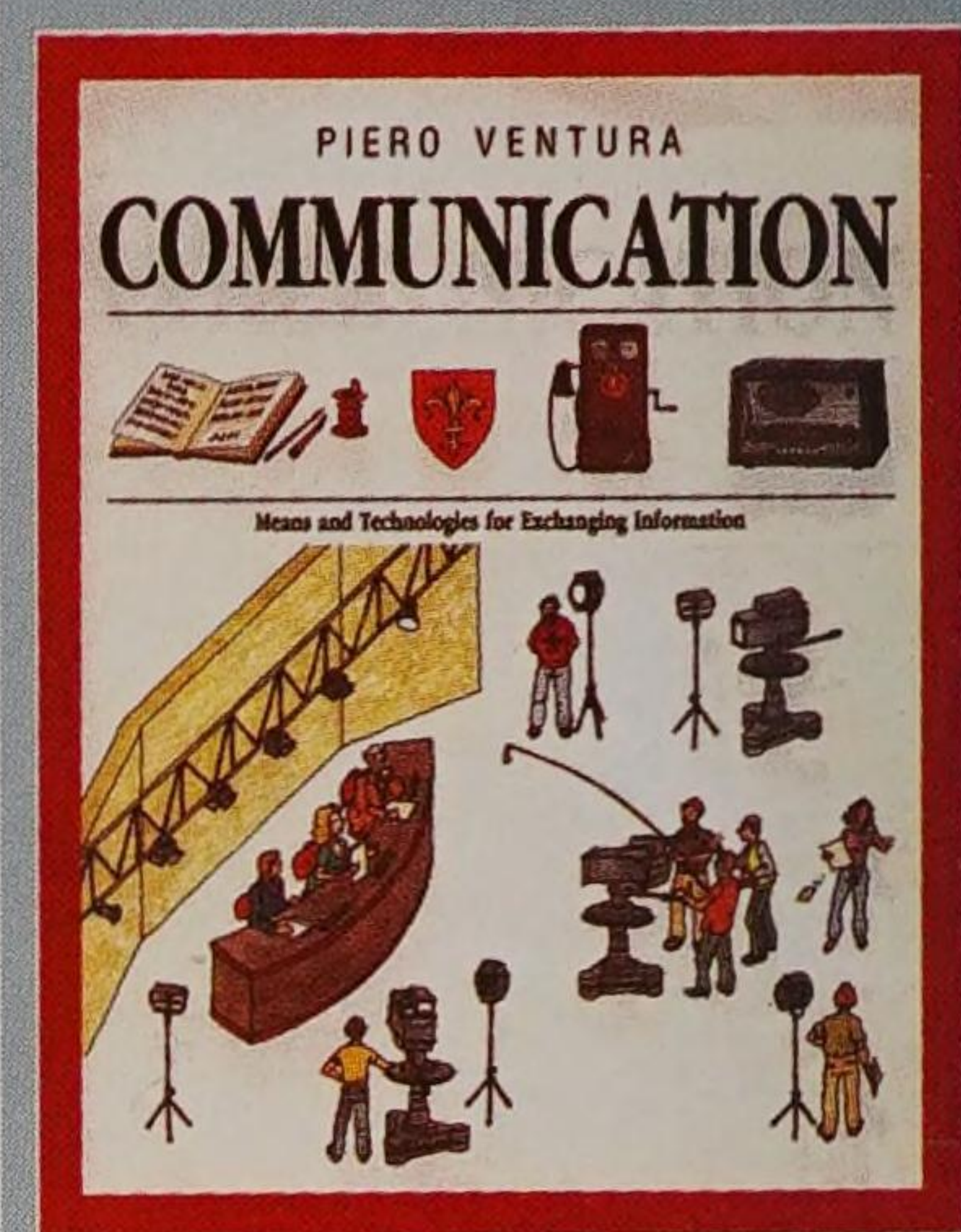
1,105 elements

Cast off! Build your own busy harbor with large ocean liners, small yachts, and motorboats. The set includes doors, windows, wheels, figures, propellers, and more.

N779289—\$50



Fax Orders Free
1-888-534-6784

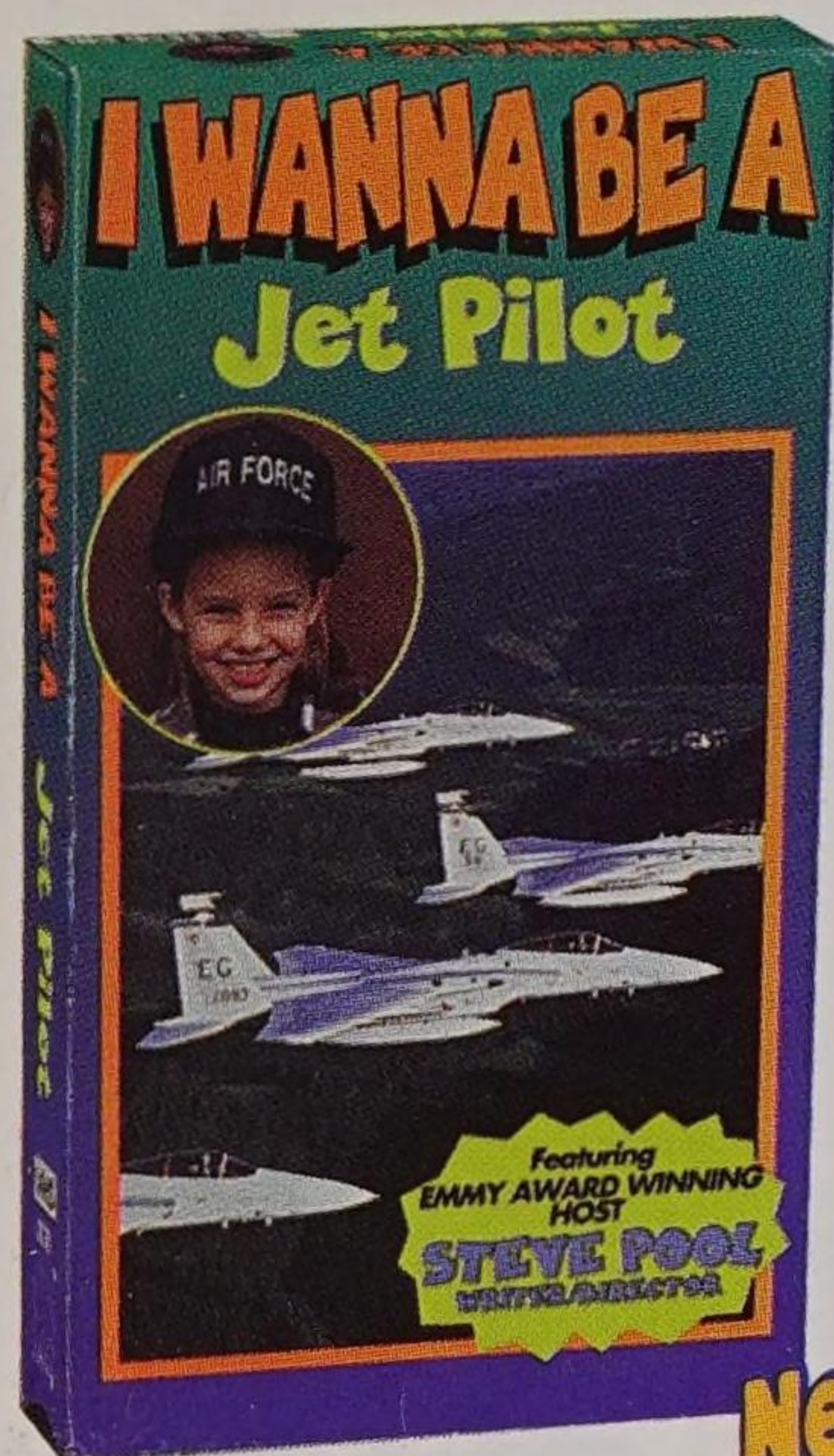


COMMUNICATION **New!**

Through humor-filled, richly detailed illustrations and a text that is both amusing and enlightening, noted author and artist Piero Ventura tracks human progress from the pictogram to the satellite image, from ancient Greek theater to the television and film of today. Inventions such as the printing press, the telephone, the camera, and the computer, are brought together in this lively recounting of the evolution of human communication.

Hardback, 64 pages.
Reading Level: Middle - High School

N756068—\$16.95



New!

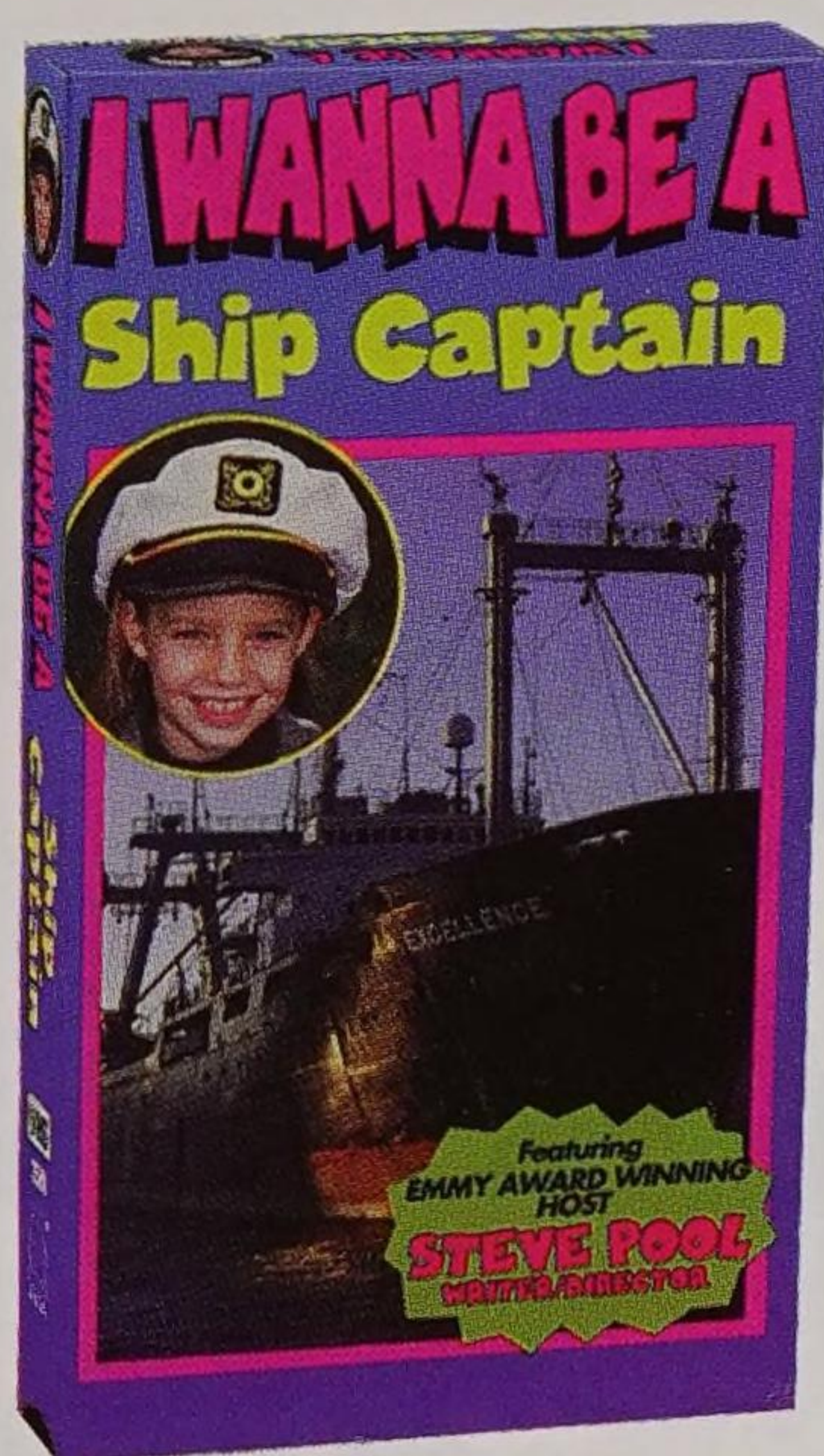
I WANNA BE A JET PILOT

Help students take off with this action-packed video. Host Steve Pool will take students to BOEING and see how a real flight simulator works. Then they will hear from men and women who test fly all the new Boeing jets and find out what it takes to become a jet pilot. Students will also see what makes a plane fly and how a jet airplane works.

Time: 31 min.

Viewing Level: Primary

N756111—\$9.95



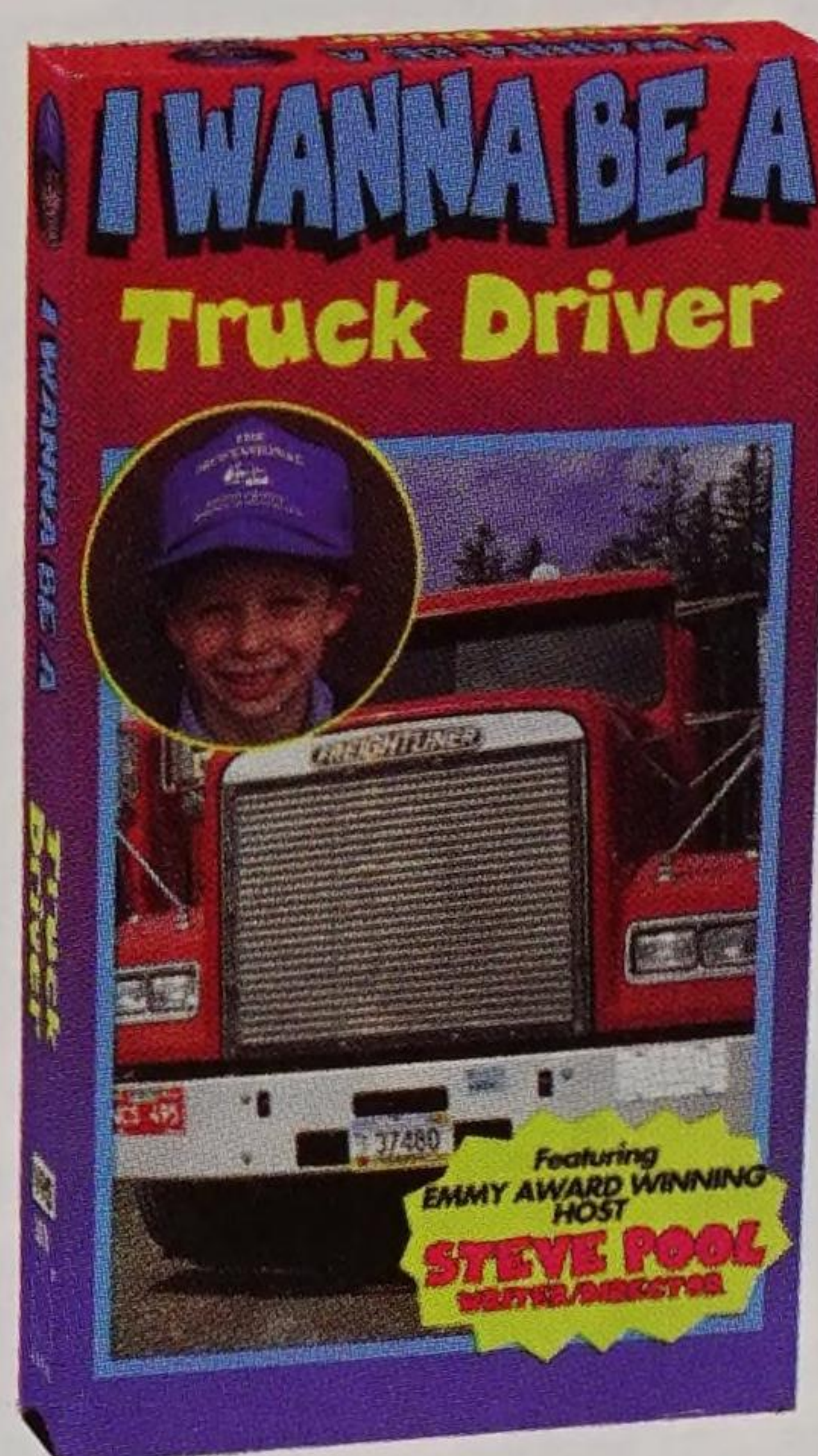
New!

I WANNA BE A SHIP CAPTAIN

All aboard as host Steve Pool takes students through the exciting world of shipping. Students will tour a Coast Guard Cutter and see some shots of the Coast Guard in action. They will also learn about life at sea and the many special jobs on board from shipboard personnel. The excitement will continue as students get a look of one of the world's largest sea ports. Time: 30 minutes.

Viewing Level: Primary

N756112—\$9.95



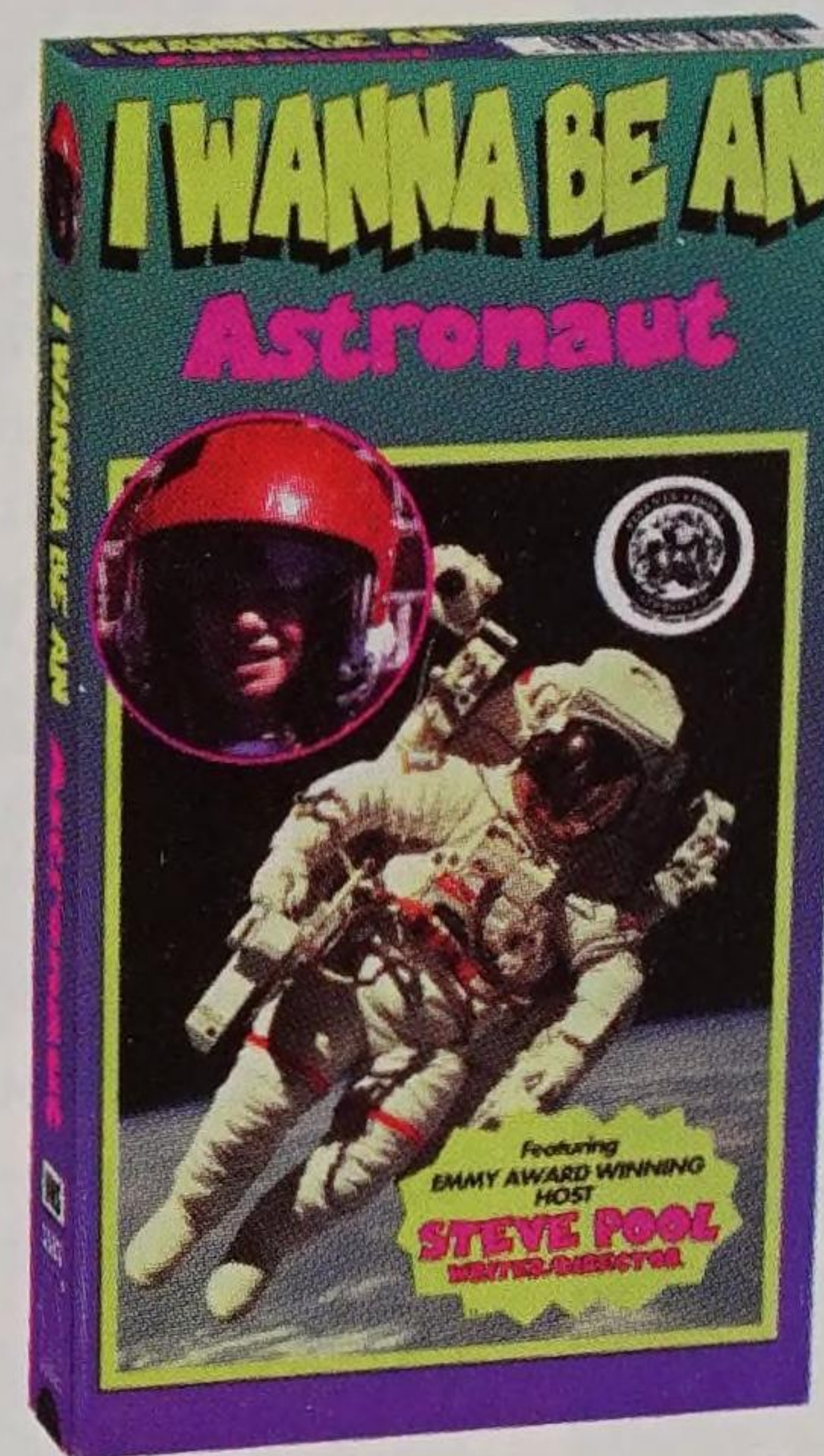
New!

I WANNA BE A TRUCK DRIVER

In this informative video host Steve Pool takes students on a ride they will never forget. Students will visit a trucking school and hear from the drivers and instructors. Then it's back on the road again to travel to the Kenworth plant where trucks are actually built. Finally, students will go on the road and look at trucks on the highway and at a truckstop. Time: 30 minutes.

Viewing Level: Primary

N756113—\$9.95



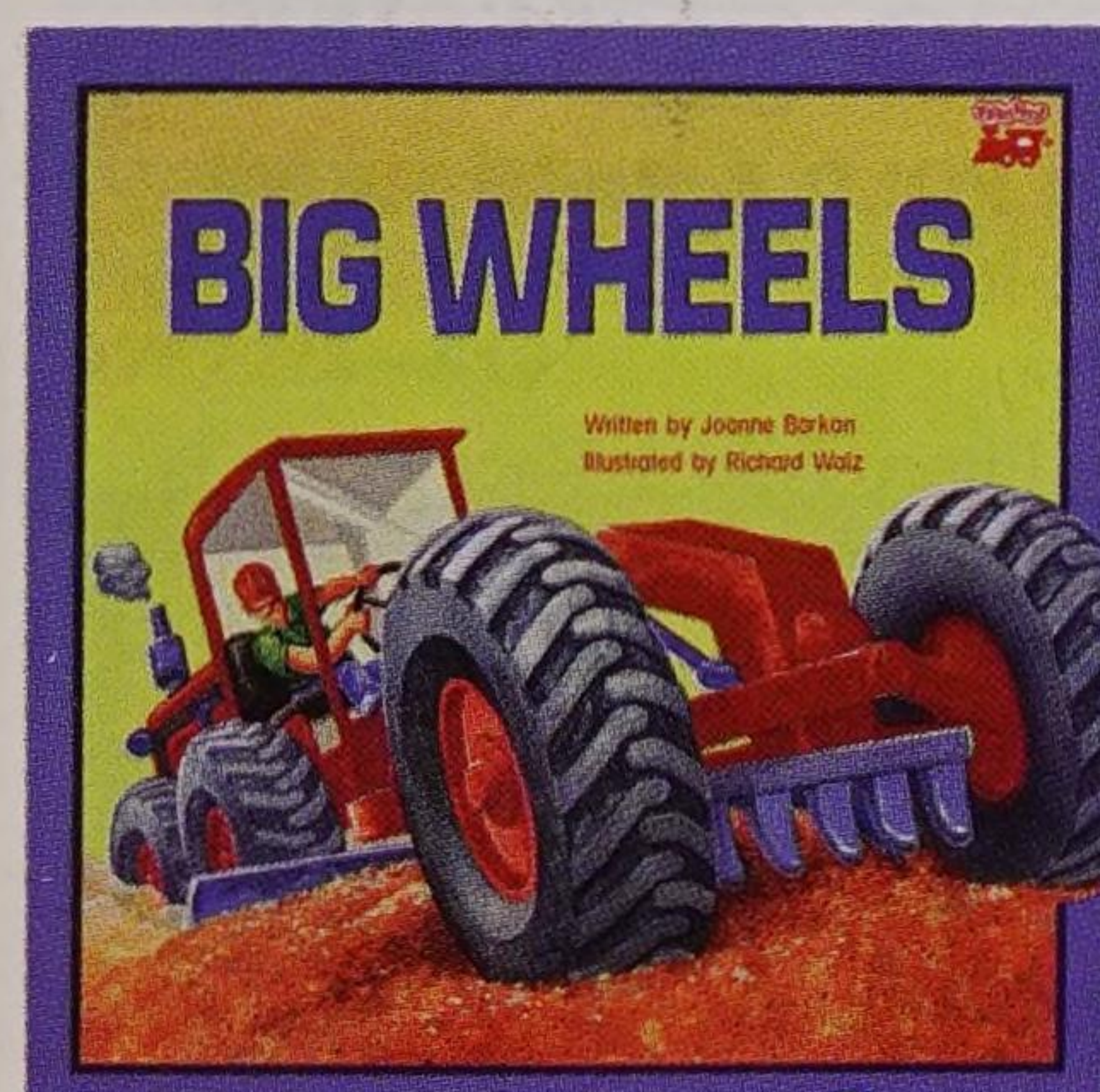
New!

I WANNA BE AN ASTRONAUT

3...2...1...Blast off with host Steve Pool as he teaches students what it is like to be an astronaut. Students will hear real astronauts tell of their experiences in space. Steve also looks into the history of the space program by discussing space endeavors such as Mercury, Apollo 13, Challenger, and the future international space station. Time: 30 minutes.

Viewing Level: Primary

N756114—\$9.95



New!

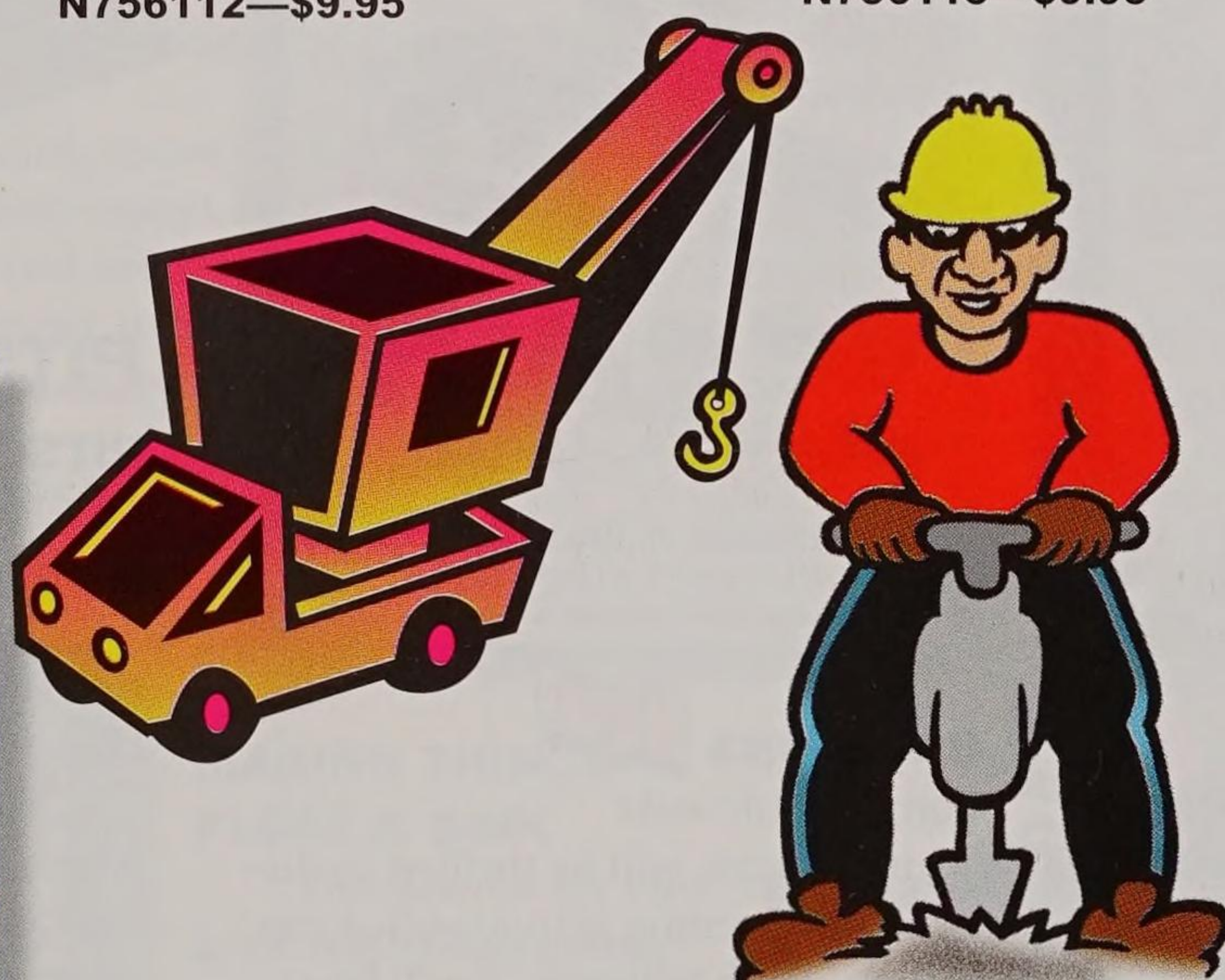
BIG WHEELS

Get a glimpse of the behind-the-scenes look at a busy construction site and the work machines that are found there. Filled with fascinating facts, Big Wheels is sure to satisfy any child's curiosity about these giant machines and how they work.

Paperback, 32 pages.

Reading Level: Primary

N756126—\$3.50

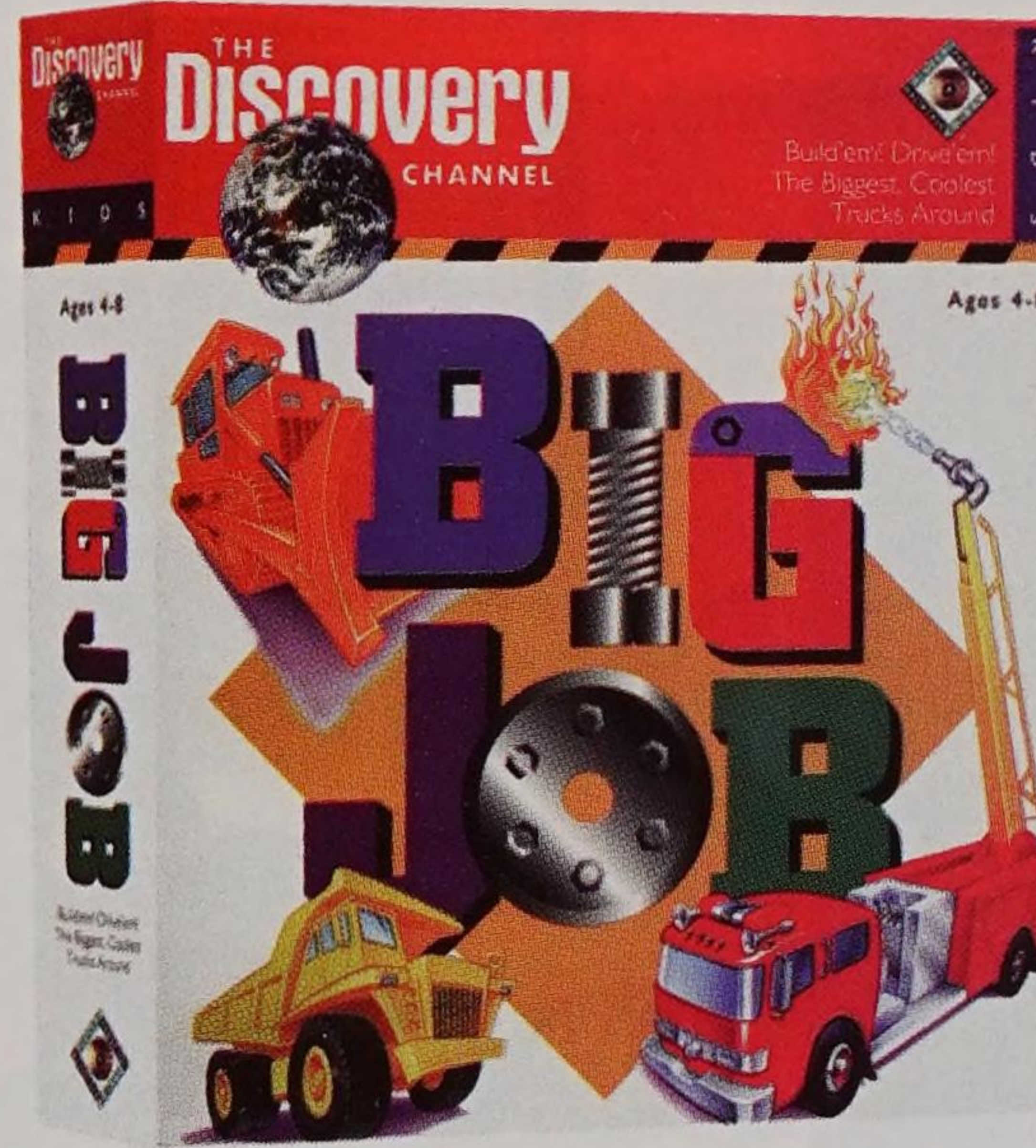


CD ROM New!

BIG JOB

Make sure your students have plenty of fuel when they start building and driving their own trucks in a world of action-packed construction, farming, and fire rescue. The possibilities are endless - with thousands and thousands of combinations students will be able to design and build their own vehicle. The 3D Driving Sim puts the students behind the wheel of their truck.

N756057 Hybrid CD-Rom—\$19.95



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Carve your
name on
hearts and
not on
marble.
Charles H.
Spurgeon



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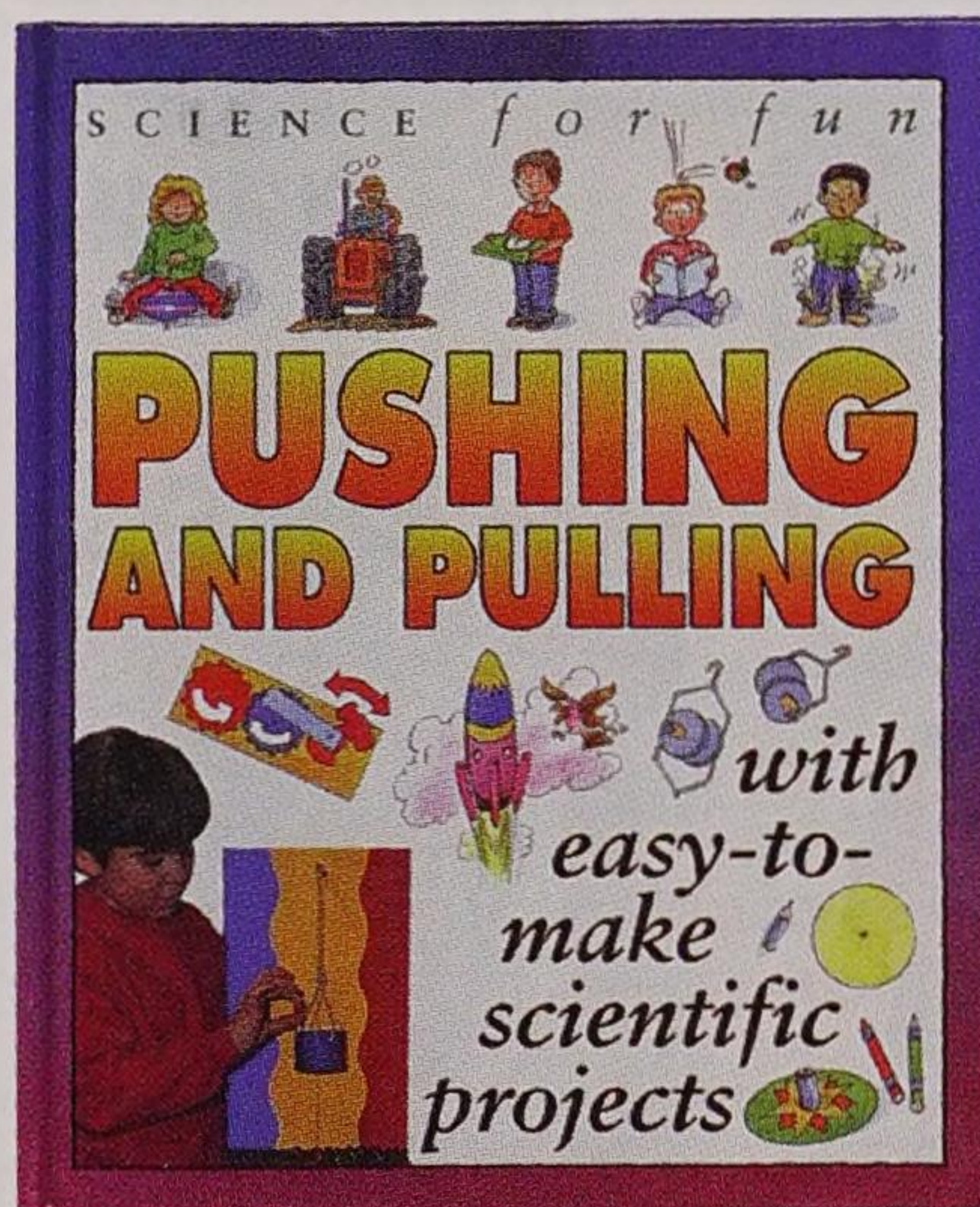
Wheels in the racer kit are different than those shown in photo.

FOLD & ROLL RACER KIT

A collection of cool and colorful hot rods that can be cut out and folded into 3-dimensional vehicles! Sixteen sweet street machines are printed in color on the cardstock pages of the book. Enough wheels and axles are provided to make all 16 models into rolling vehicles.

A great elementary transportation activity!

N754546—\$29.95

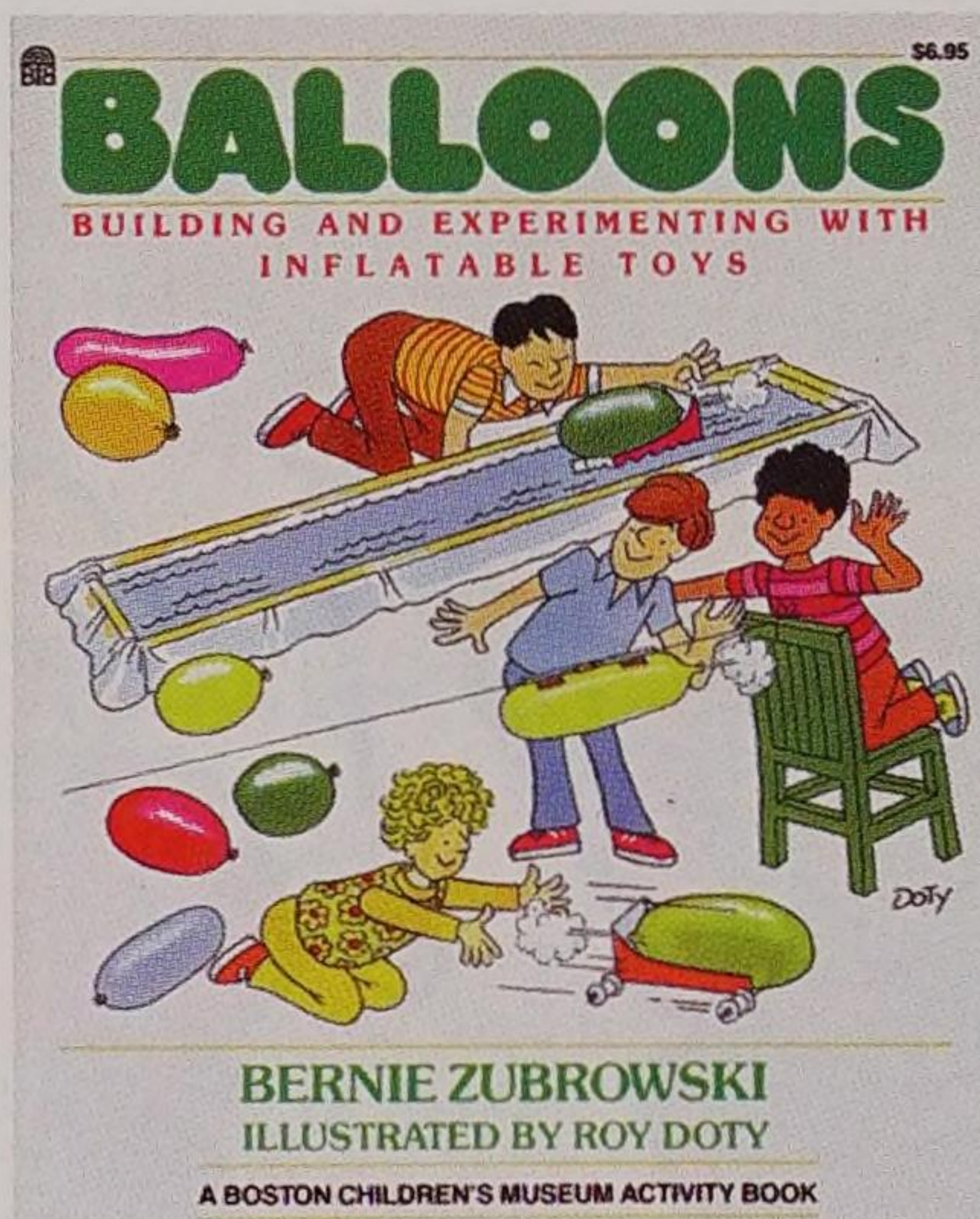


PUSHING AND PULLING

Have you stopped to think that there are forces that push and pull us whenever we do anything? With a series of exciting hands-on projects, this book explains some of these fascinating forces and shows how they work. The reader is guided in analyzing the results of each experiment and is then offered ideas for further activities which will reinforce his/her understanding of the principle. Hardback, 32 pages.

Reading Level: Primary - Intermediate

N756074—\$20.95

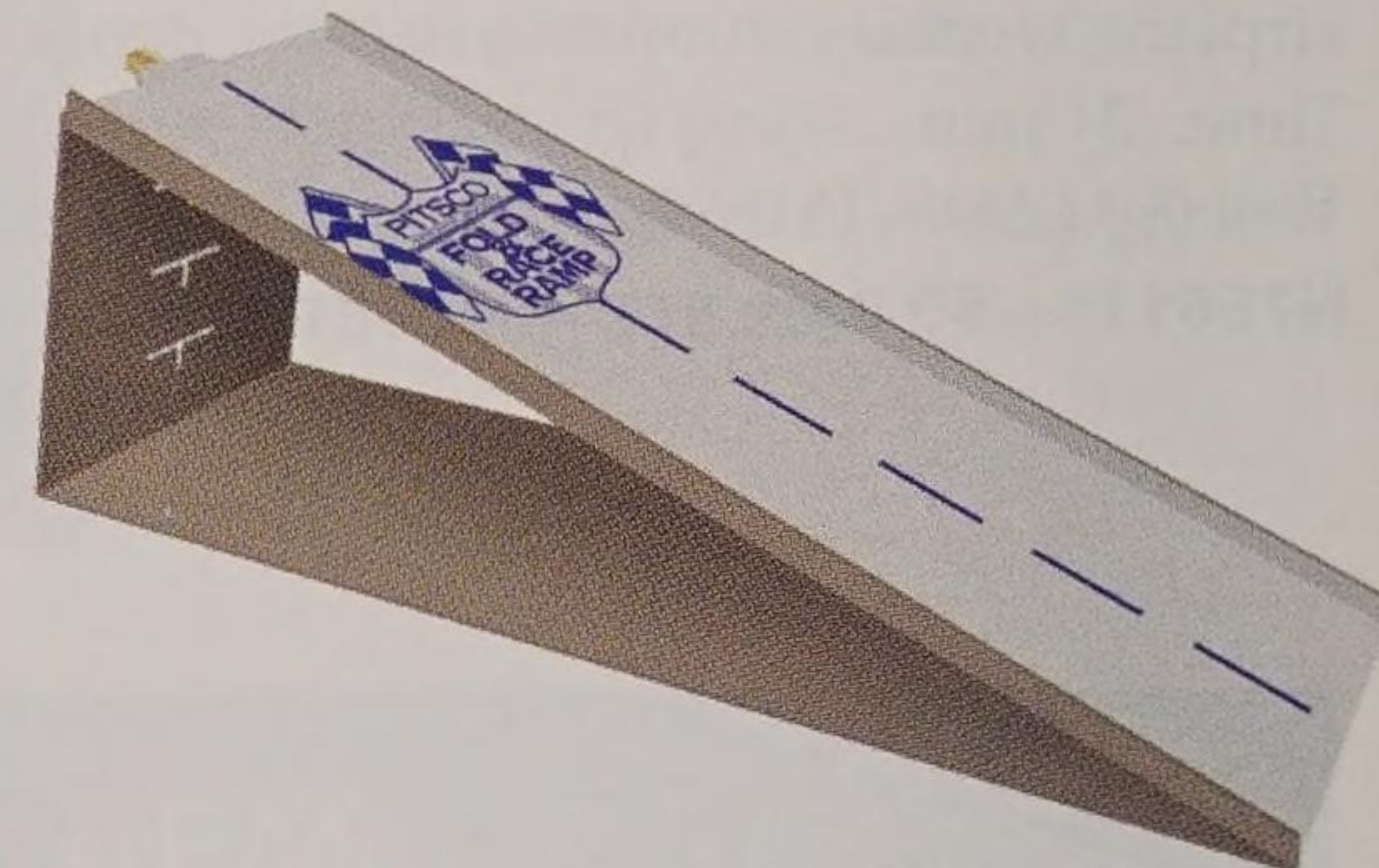


BALLOONS

Bernie Zubrowski

Your students will be thrilled to discover the exciting activities that can be done with balloons. You'll be thrilled to know how many basic science principles they can learn in the process. They will be able to build all kinds of toys: cars that drive, boats that float, and submarines that sneak through water. Paperback, 79 pages. Reading Level: Intermediate - Middle School

N756130—\$6.95



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EXCLUSIVE

PITSCO FOLD & RACE RAMP

Fold it up and start racing within minutes!

The Pitsco Fold & Race Ramp is designed specifically for the elementary classroom needs.

Economical, easy to store, and fun to use. Use the ramp to test and race Fold & Roll Cars, Balloon Cars, and other rolling models in your classroom. Constructed of cardboard material.

N990022—\$7.95

Balloons, straws, wheels and more hands-on supplies beginning on page 94.

Fax Orders Free
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From Optimum Resource, Inc.

Car Builder

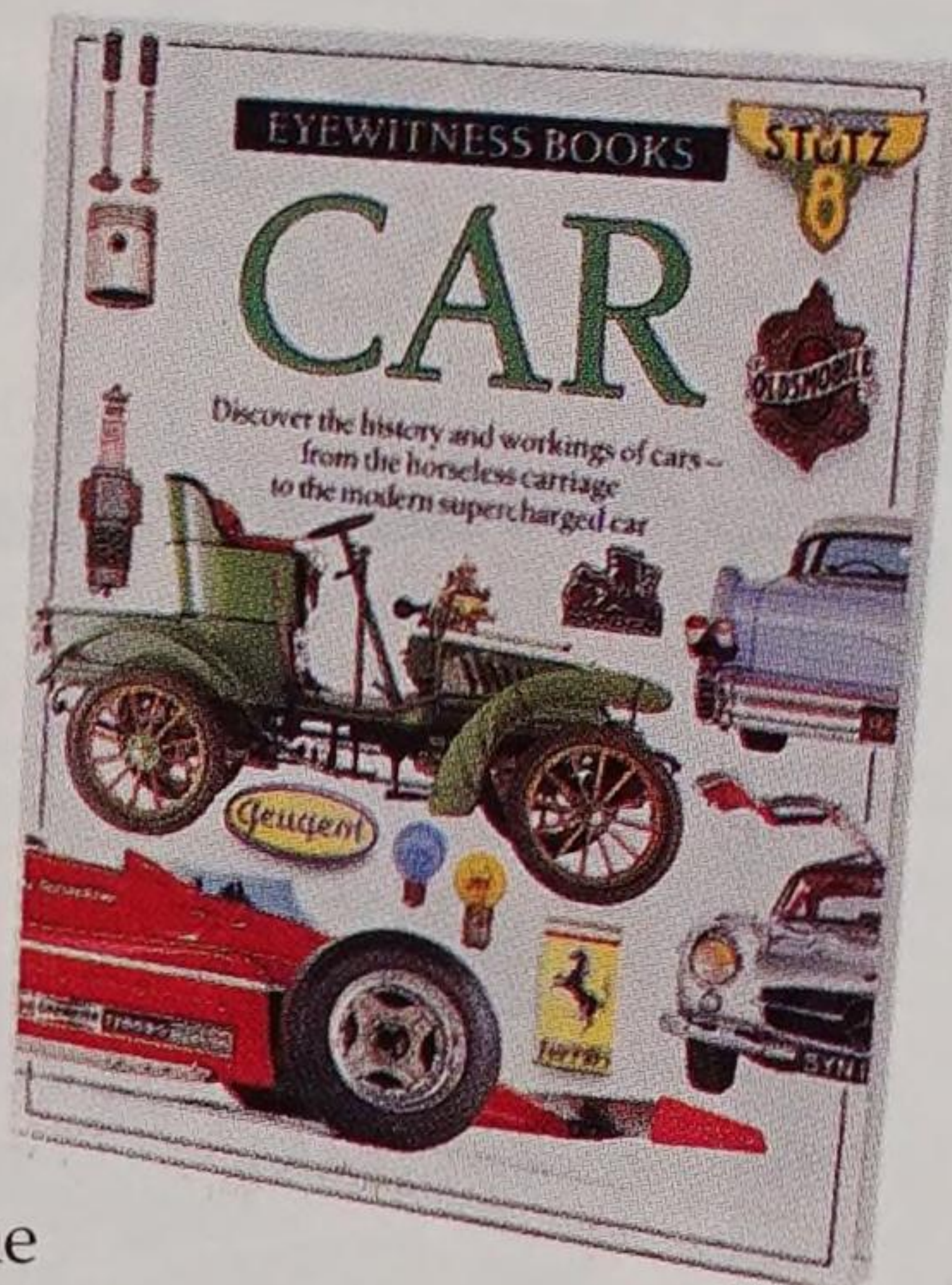
1.5" disk, for Windows 95 and Windows 3.1
486 (503444) or Pentium, SVGA, 1MB RAM, 10MB DISK 2.0 or higher
256 colors, Windows compatible sound card recommended. \$35.00

CAR BUILDER SOFTWARE



Learn first-hand how it feels to be a car designer! Determine the aerodynamics, fuel efficiency racing capability, engine, chassis and suspension system. After your car is finished, it is run through a full testing procedure that includes a wind tunnel and test track where the test driver will comment on your design. At the end of testing, save your car to disk with all of its testing information for comparison with other designs. Recommended for ages 8 and older. School versions include two copies of the software and a 12 lesson-plan set on incorporating the program into your curriculum. Lab packs include six copies of the software.

	Consumer	School	Lab Packs
Apple 5.25	N751023—\$60	N755027—\$90	N751024—\$160
Apple 3.5	N751232—\$60	N755028—\$90	N751234—\$160
Macintosh	N716138—\$60	N755029—\$90	N755025—\$160
DOS 3.5	N751233—\$60	N755030—\$90	N751236—\$160
Windows	N716139—\$60	N755031—\$90	N755026—\$160
Hybrid CD	N755024—\$60	N755032—\$90	N755033—\$160



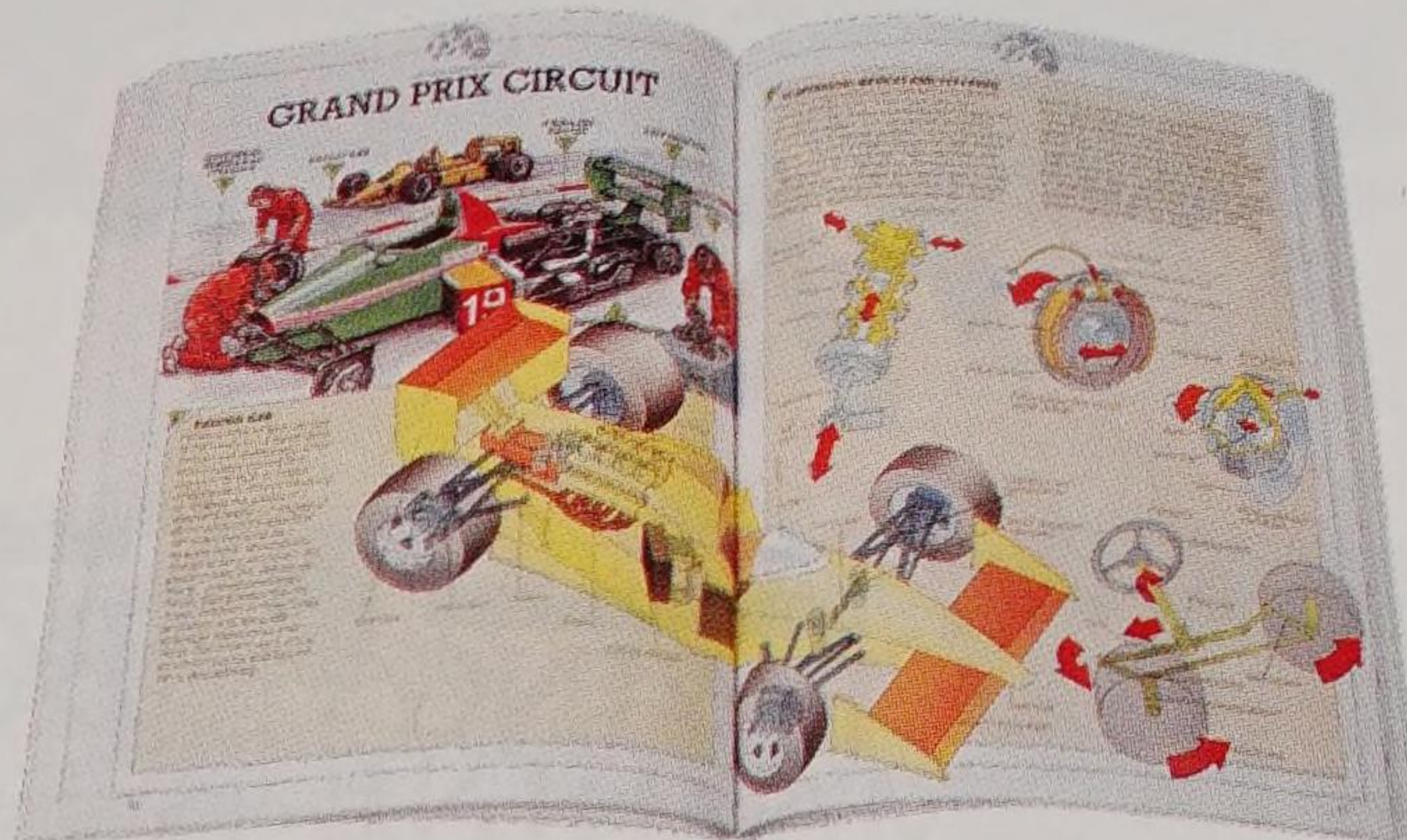
EYEWITNESS CAR

Richard Sutton

Excellent for the young car buff who enjoys seeing detailed examples as well as reading about the history of cars. This collection of photo essays is about the history, development, and impact of automobiles from horseless carriages and model T Fords to today's high-performance racing cars. Hardback, 64 pages.

Reading Level: Intermediate - Middle School

N752226—\$19



USBORNE BOOK OF CUTAWAY CARS

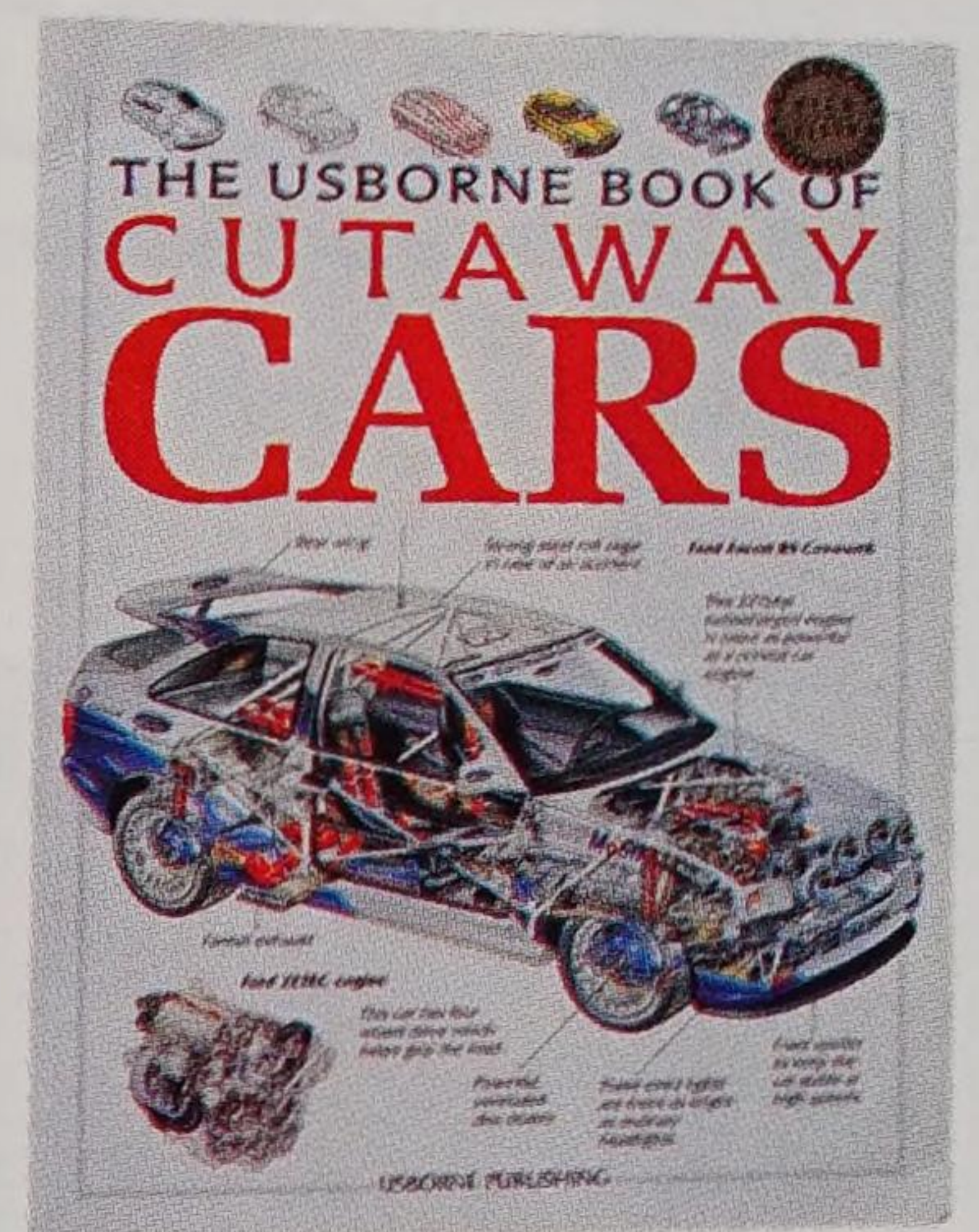
Clive Gifford

There is no better way to find out about how cars run than to cut away their bodywork to show what is going on inside. This book features beautifully detailed cutaway illustrations and clear text that explains many of the principles behind how cars work. Action-packed photographs bring to life all sorts of cars, from rugged, off-road vehicles to the sleekest sports models.

Paperback, 32 pages.

Reading Level: Middle School - High School

N754876—\$6.95



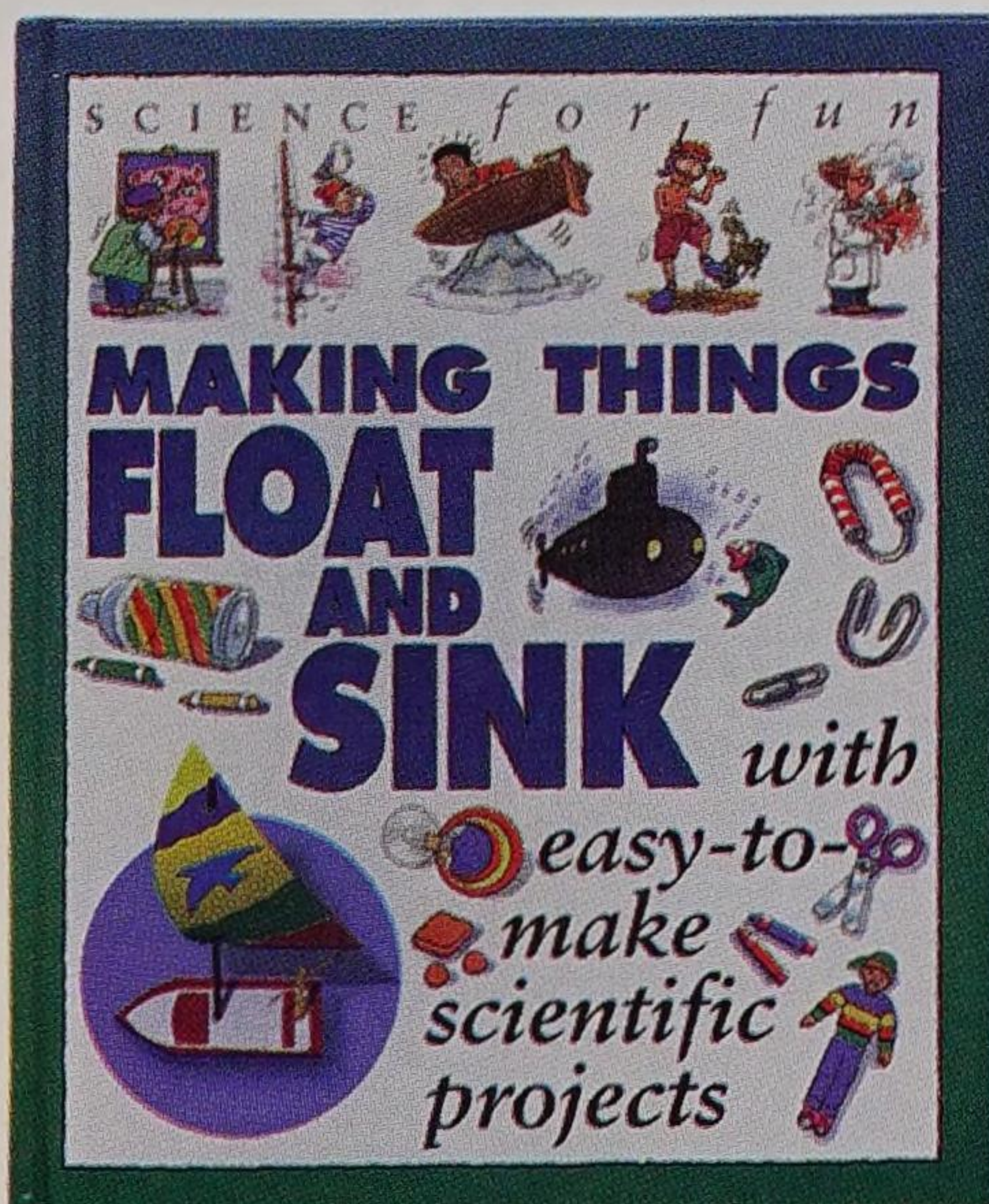
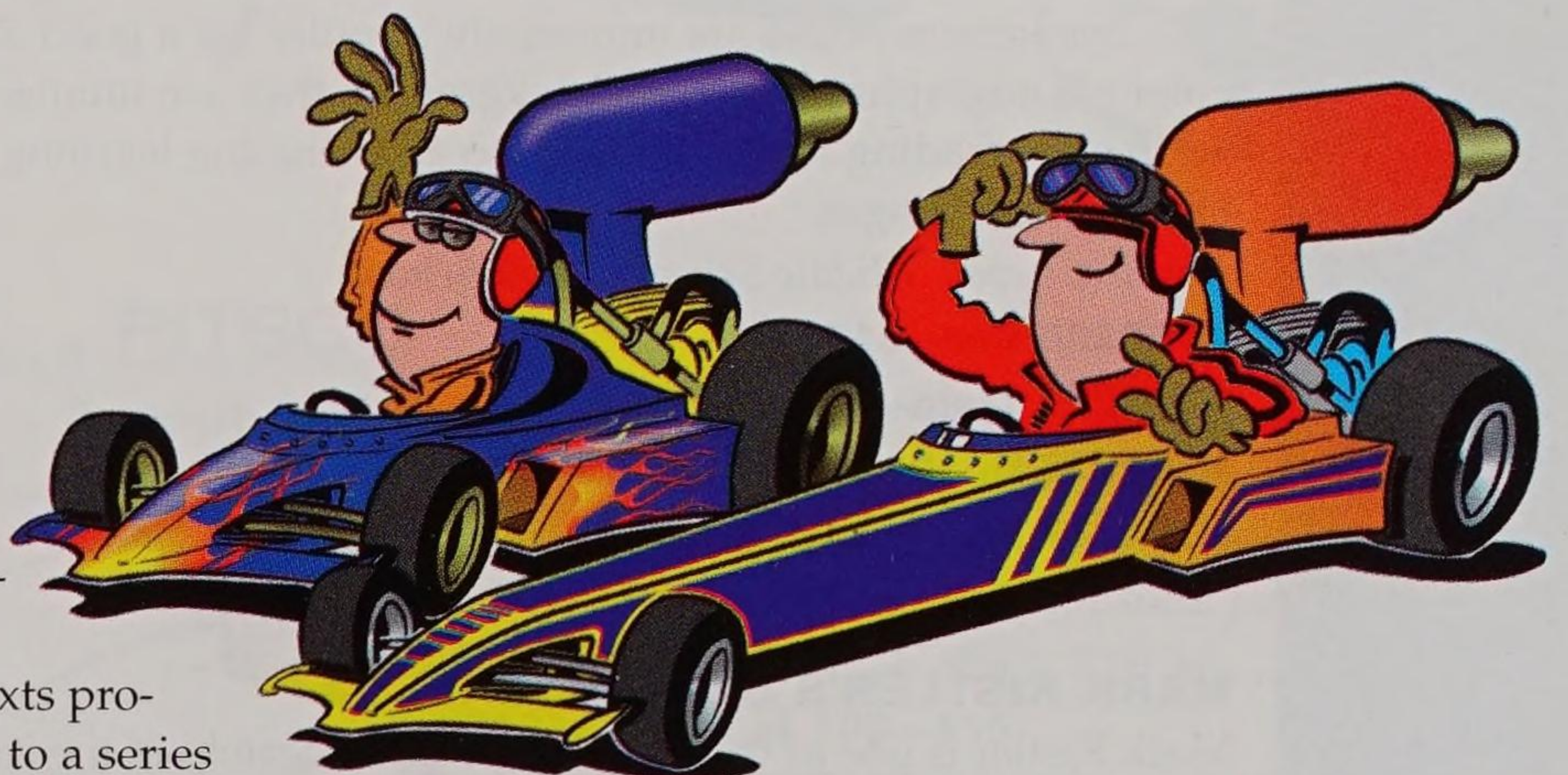
New!

MAKING THINGS FLOAT & SINK

This Science for Fun book introduces young people to science by helping them to understand basic concepts. Simple texts provide a step-by-step guide to a series of experiments, each of which is designed to help the reader truly understand the underlying scientific principle. Hardback, 31 pages.

Reading Level: Intermediate

N756075—\$20.95



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HARTMAN PAPER RACER EXPLORE-A-PAK

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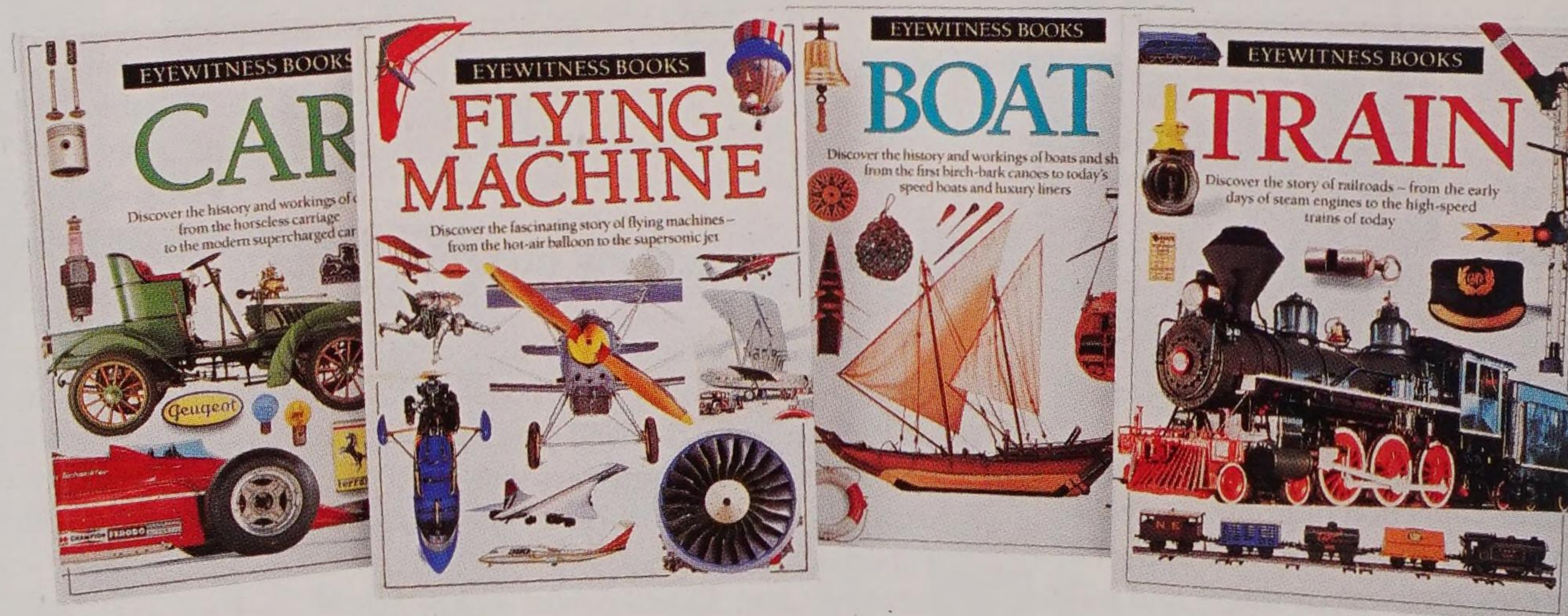
Meet Rhonda Hartman! Rhonda is a top fuel dragster driver, who competes at the national level.

Your students can build their own version of the Hartman dragster! The dragster's image is printed in color on a sheet of cardstock material. Students simply cut and fold, then attach wheels and axles and they're ready to roll!

Pak includes enough car bodies, wheels, axles, and axle tubes to build 25 racers.

N754549—\$29.95

School is a building that has four walls—and tomorrow inside.
Lon Watters



EYEWITNESS TRANSPORTATION BOOKS

Eyewitness books are immensely popular for a good reason — they're visually stunning. Packed with beautiful, full-color photographs on a white background, they are uniquely attractive. They're also packed with great information presented in easy-reading text. It adds up to a fascinating learning experience for students.

Hardback, 63 pages.

Reading Level: Middle School - High School

N752226 Car—\$19

N752227 Train—\$19

N752228 Boat—\$19

N752287 Flying Machine—\$19

MARK KISTLER'S DRAW SQUAD

New!

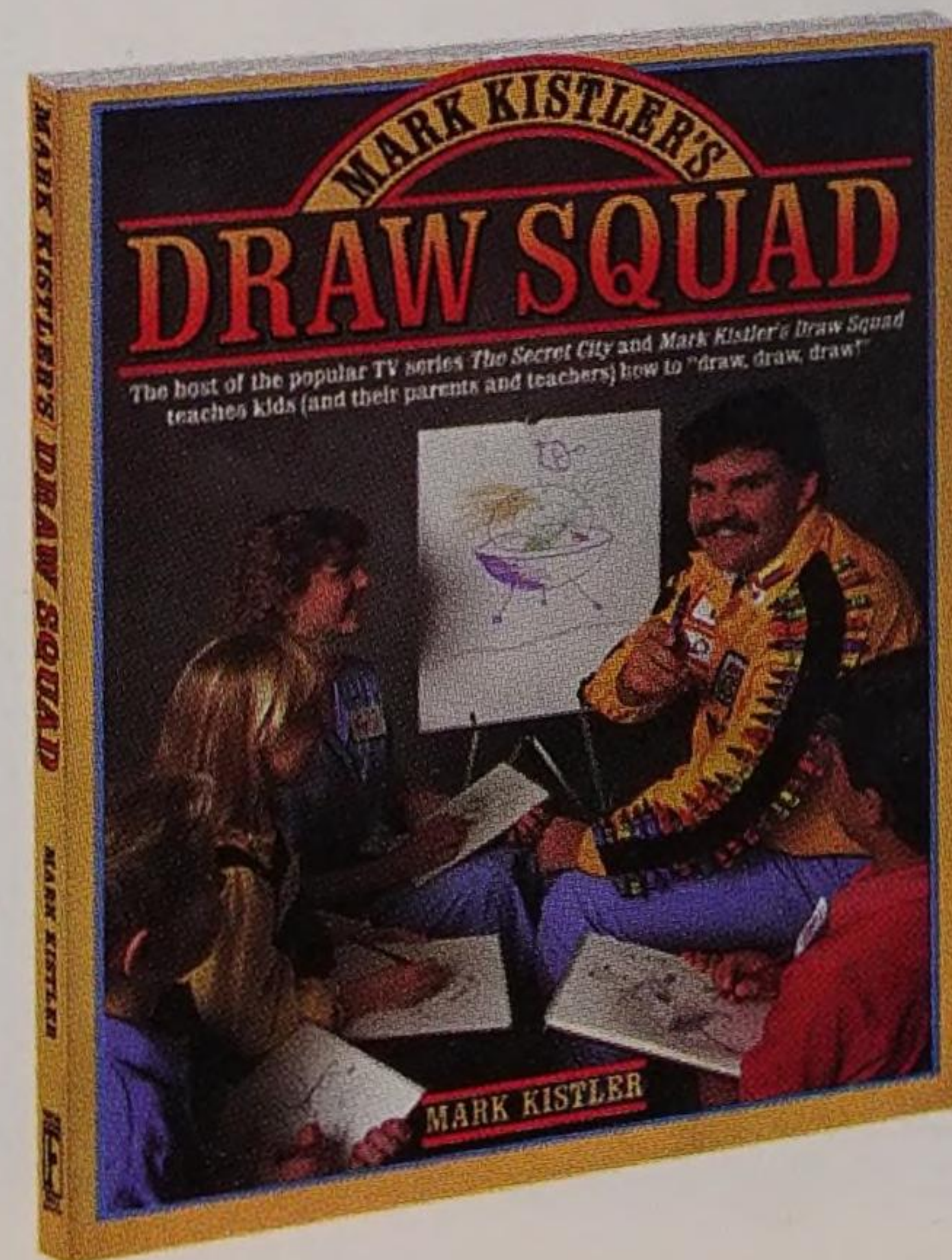
Mark Kistler is one of the most noted art educators in the history of modern art. This book, aimed at teaching people to draw, contains thirty lessons which are peppered with jokes, tips, slogans, and organized in easy-to-follow steps. "Warm-up" exercises generate enthusiasm; the "Key Drawing Words" develop specific skills; practice pages are provided for hands-on participation; and Mark's lively sketches and "contests" invite the student to

add their own touches. Paperback, 250 pages.

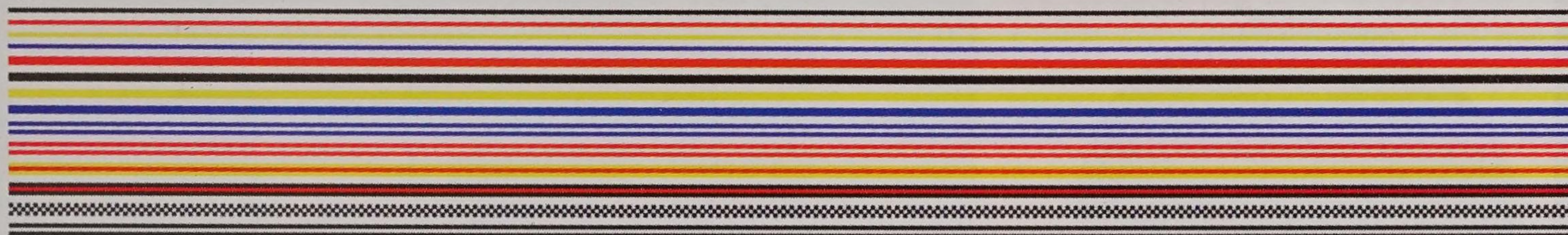
Level: Intermediate - Adult

N756116—\$15

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A



B

C

D

E

PITSCO DECALS

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These decals will add unique flavor to scale models, racers, rockets, model airplanes, and more! Pinstripe decal sheet is 4" x 24" and other decal sheets are 6" x 8".

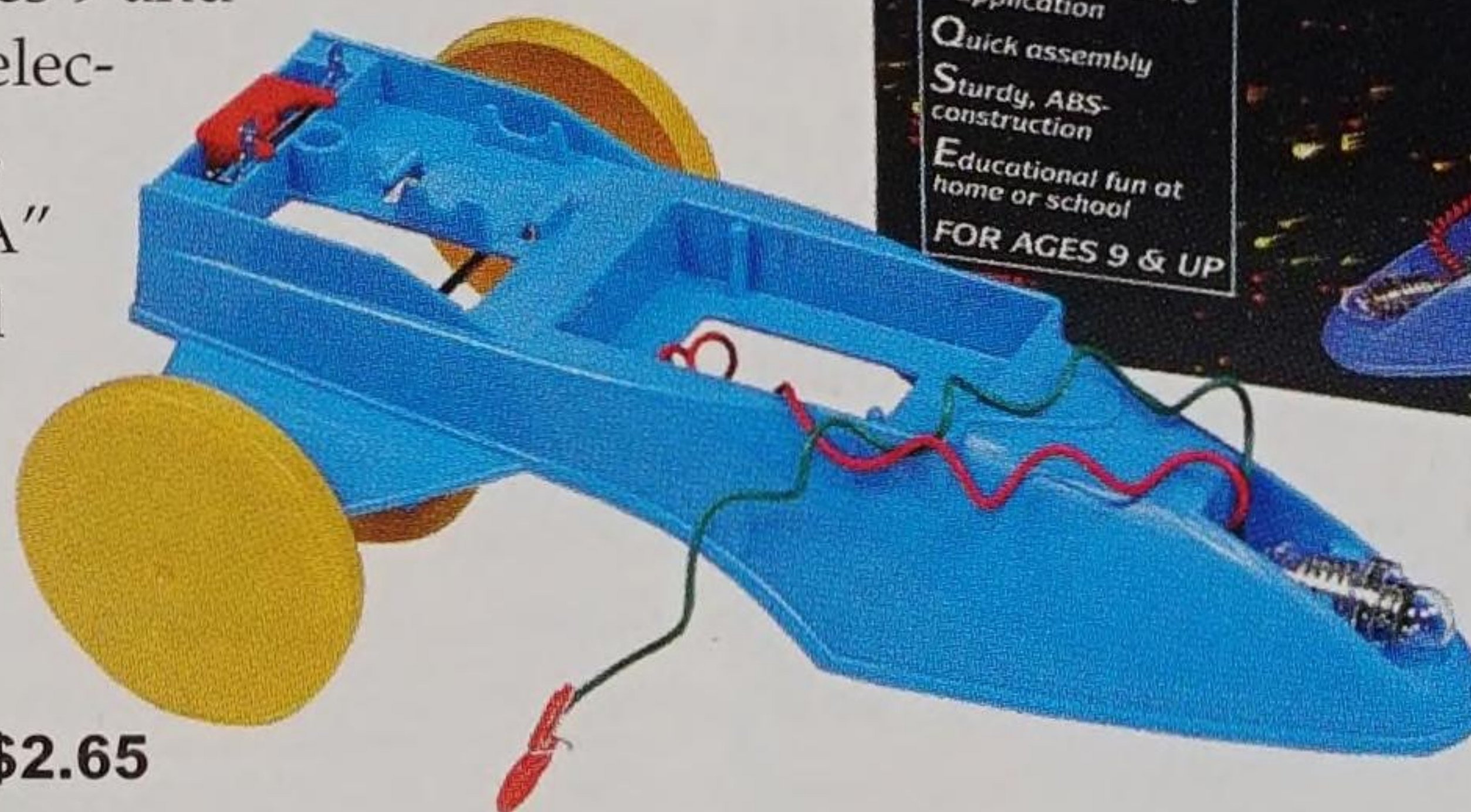
- A. N754540 Pinstripes—\$2.95
- B. N754544 Neat Stuff—\$2.95
- C. N754543 Flags & Flames—\$2.95
- D. N754542 Numerals—\$2.95
- E. N754541 Plane art—\$2.95

JET RACER

This fantastic kit has experiments in air propulsion, solar motorization, and direct motor drive applications. Features tough ABS plastic construction and quick, easy assembly. The included propeller can be launched into free flight as well as be used to propel the vehicle.

The Jet Racer is an excellent tool for teaching students (ages 9 and up) the principles of electricity, transportation, and solar energy. "AA" batteries and optional solar battery are sold separately.

- N750941—\$19.95
- N751046 AA
- Batteries (2 pack)—\$2.65



RACER WHEELS

PITSCO
INNOVATIVE EDUCATION

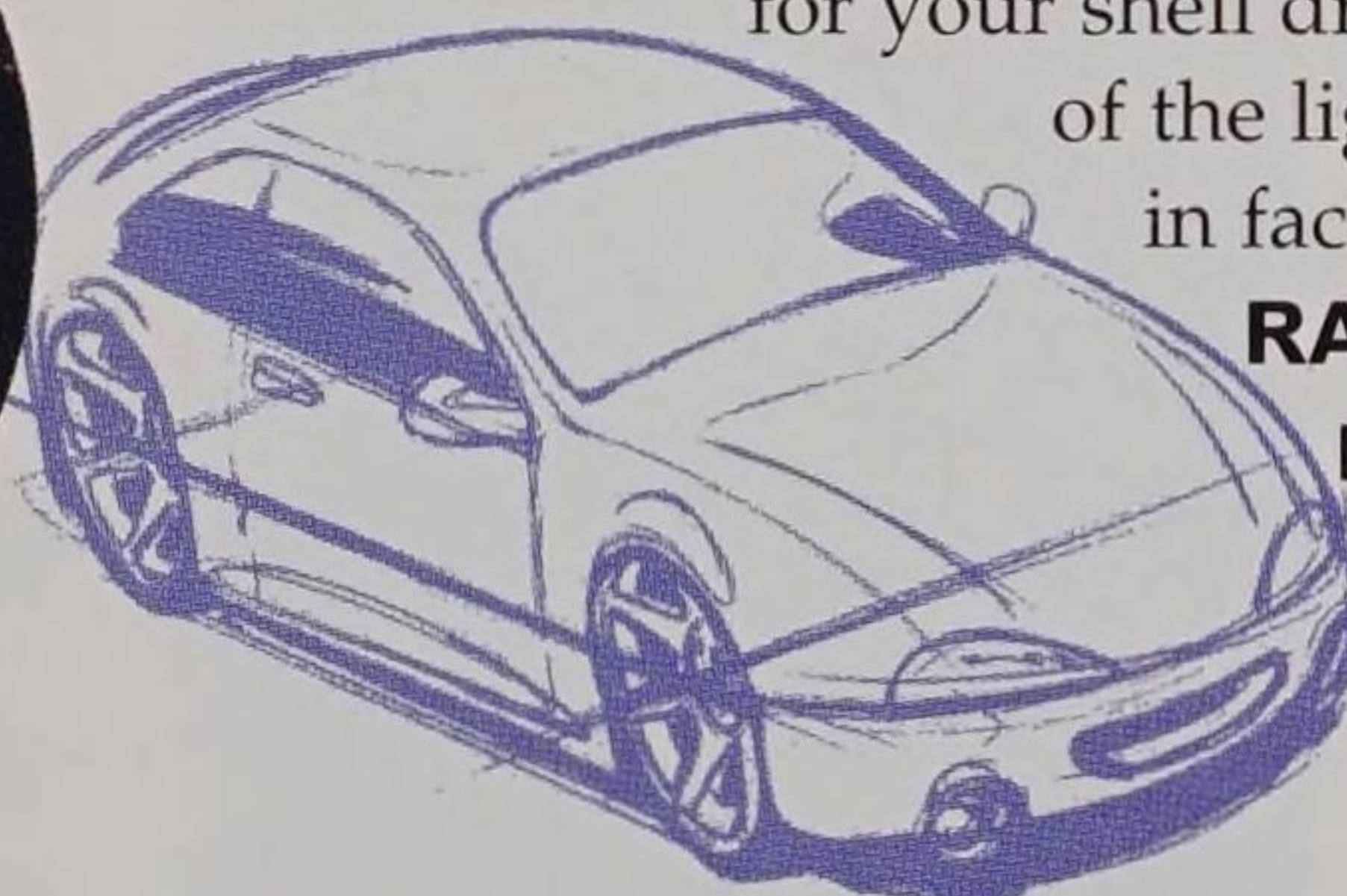
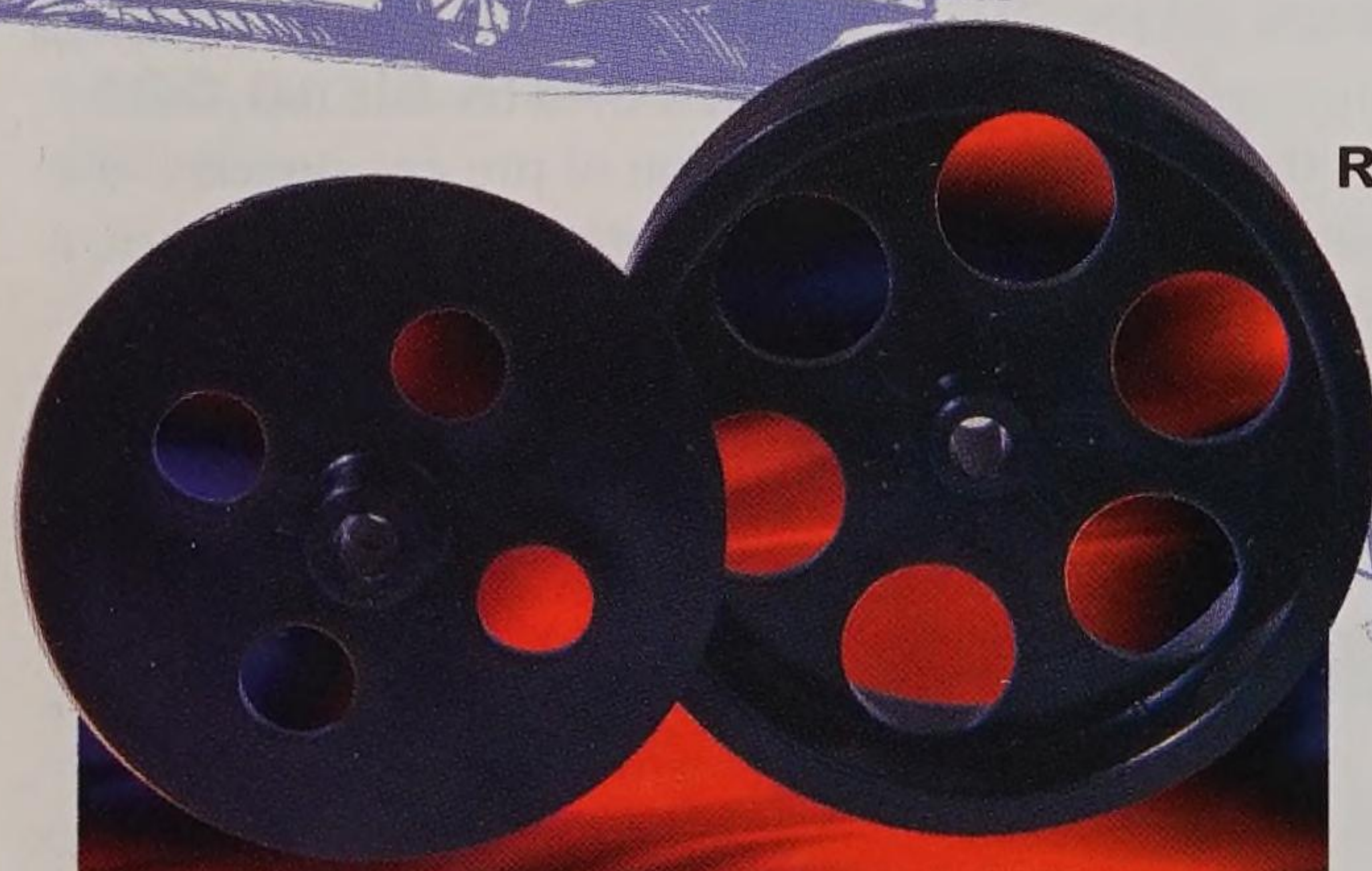
Racer wheels are engineered to perform on any car design. Perfect for your shell dragsters (the axle hole goes through the wheel). One of the lightest, fastest designs we have ever created. So fast, in fact, that many racers use them for their rail-type cars.

RACER-R, REAR 1-5/8" dia. x 5/8" w.

N713327 pkg. of 100—\$15

RACER-F, FRONT 1-3/8" dia. x 3/16" w.

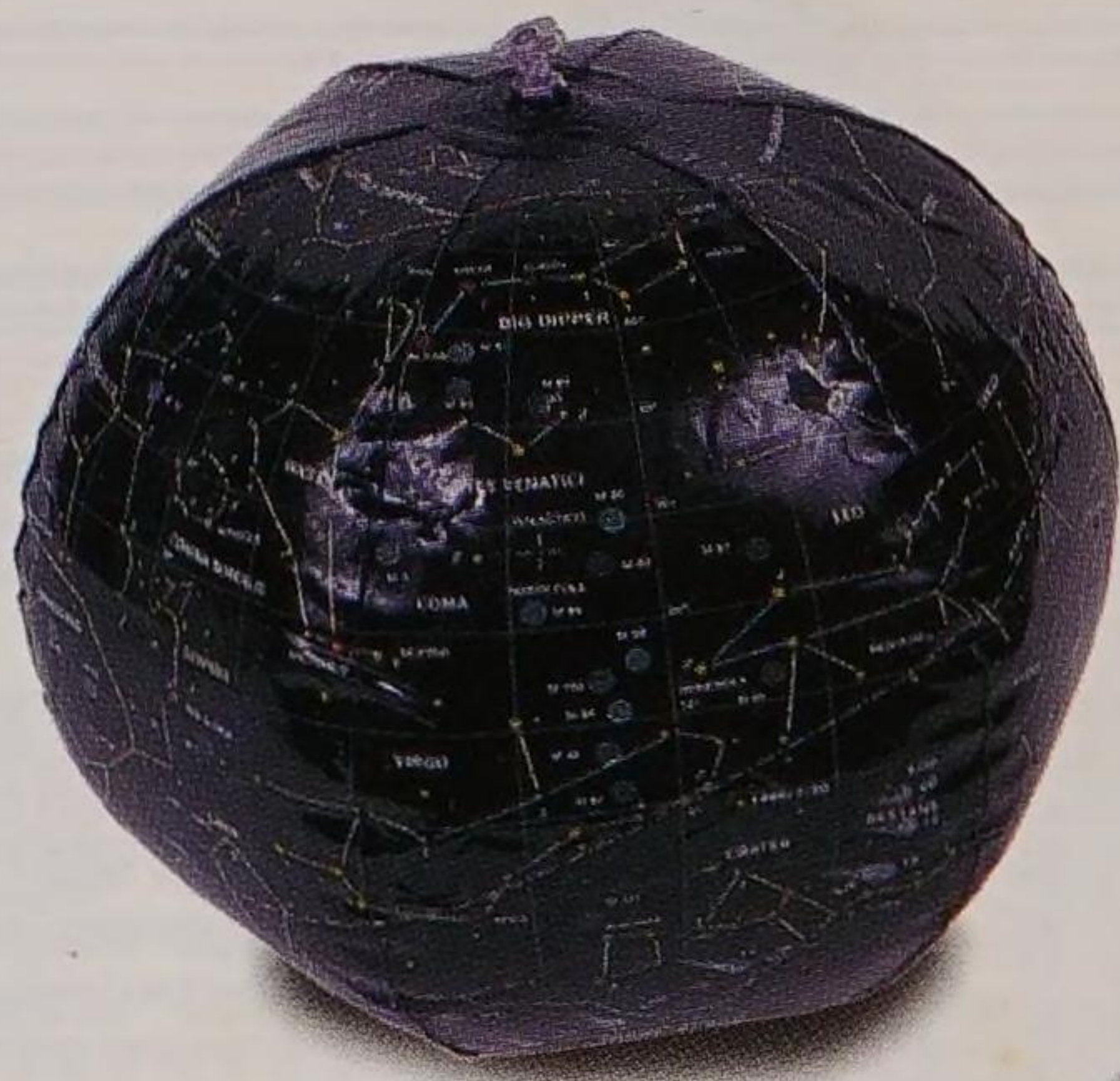
N713330 pkg. of 100—\$12



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I touch the
future I teach.
Christa
McAuliffe



SPACE INFLATABLES

New!

Create a space theme in your classroom by hanging these realistic inflatables. Dimensions given are sizes when filled with air.

N756047 Space Shuttle (26")—\$5

N756048 Stellar Globe (16" dia.)—\$4.50

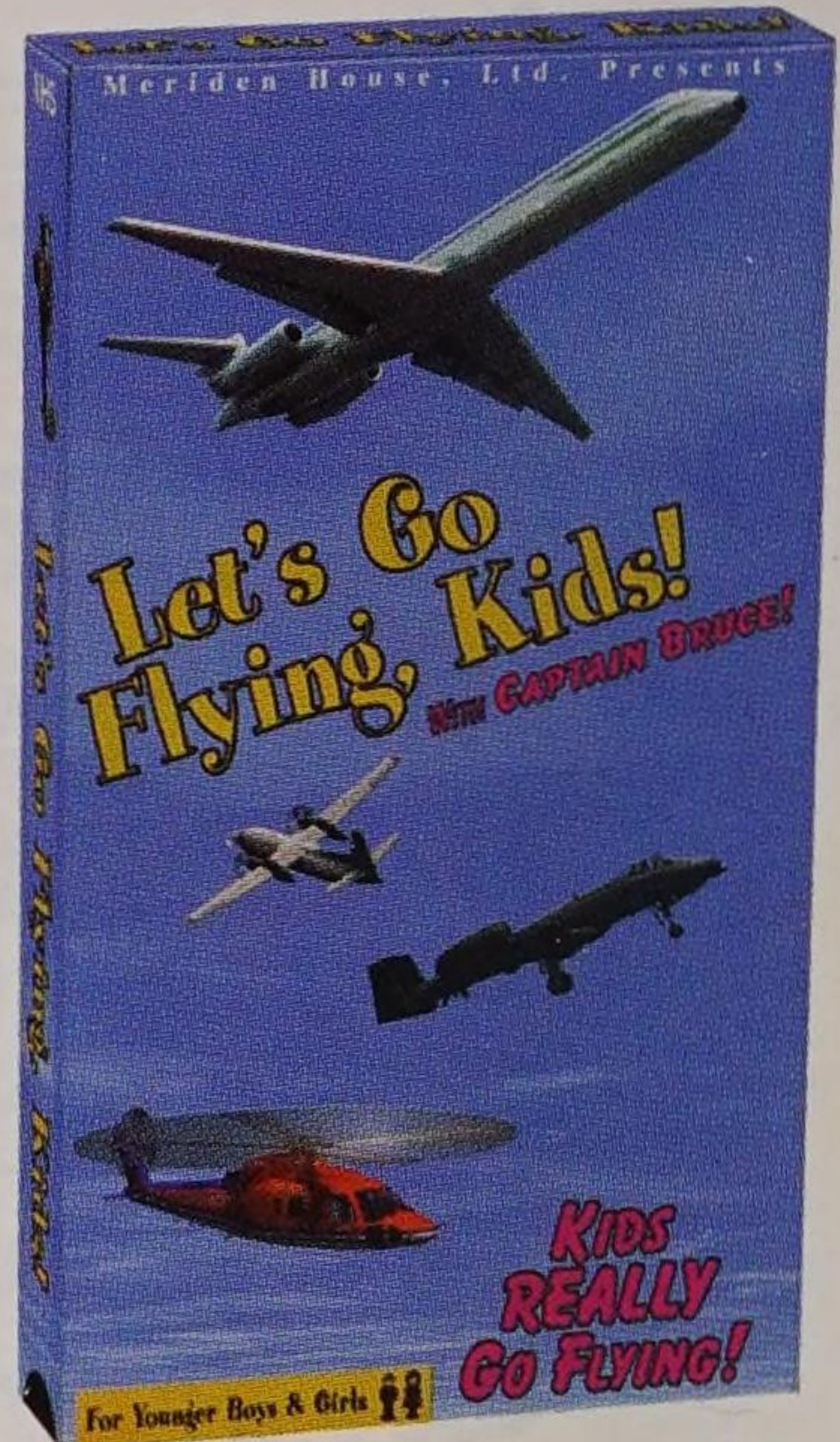
CD-ROM

THE MAGIC SCHOOL BUS EXPLORES THE SOLAR SYSTEM

New!

Students will have a blast interacting with this CD-ROM based on the popular TV series *The Magic School Bus*. They can journey to the moon or any one of the planets of the solar system and learn cool facts. Nine games and nine science experiments will engage their minds. Show and tell multimedia reports make learning fun and science easy to understand. Includes video and images from NASA and the Jet Propulsion Laboratory. Recommended for ages 6 to 10.

N756098 Windows CD-ROM—\$29.95



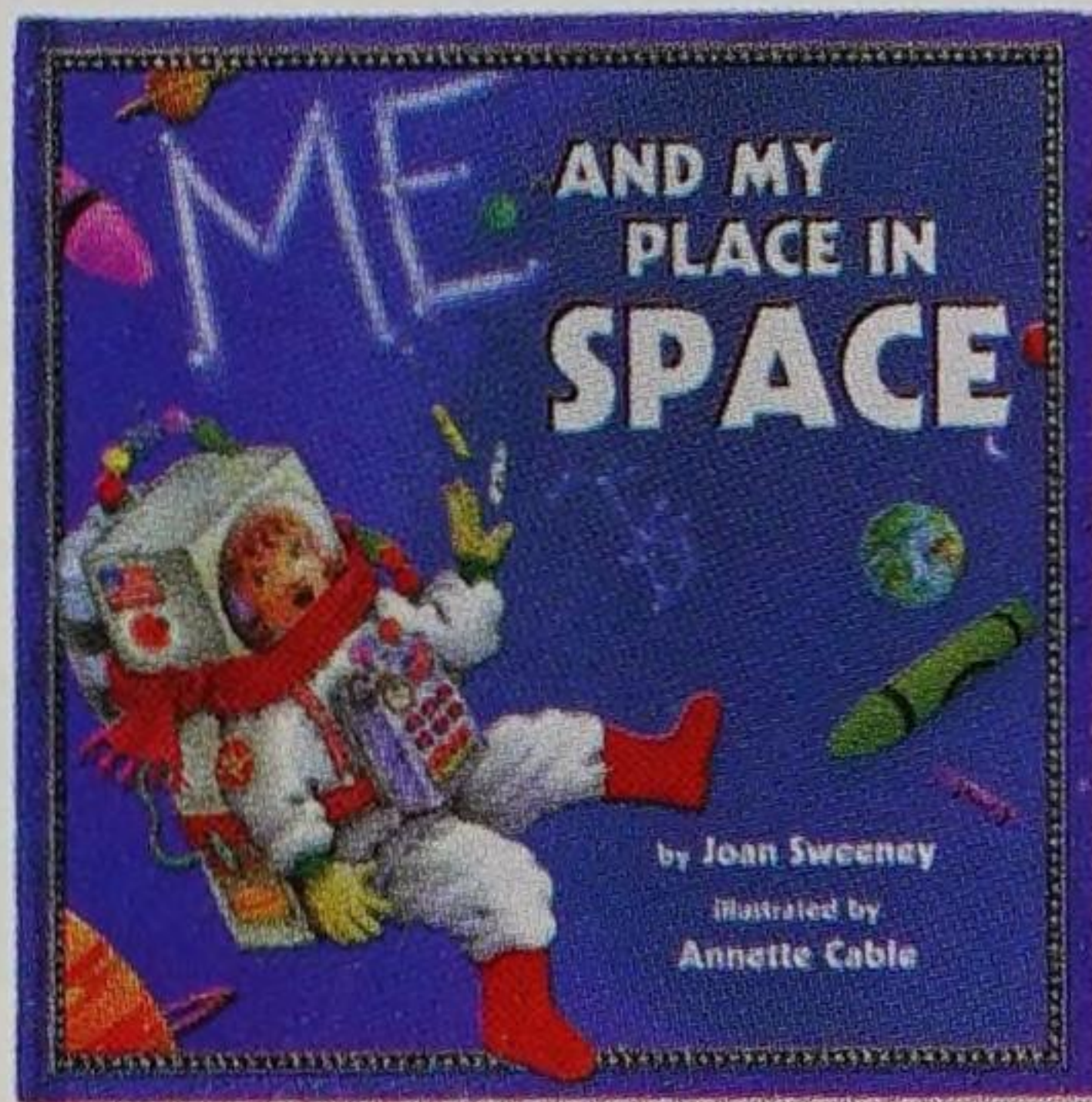
LET'S GO FLYING KIDS!

New!

The sky is the limit with this fun and educational video. Students will climb aboard with a real airplane pilot and learn all about planes and the people who make them. Host Captain Bruce, an experienced airplane pilot, will show students how a plane flies. Plus, they will see the men and women who work at busy airports and visit a real air show.

Approx. Time: 30 minutes
Viewing Level: Primary

N756073—\$20



ME AND MY PLACE IN SPACE

New!

A perfect first book to introduce children to space. Colorful and detailed artwork delivers a message that children can understand. Among the terms illustrated and explained in simple sentences are galaxy, Milky Way, moon, planet, solar system, star, sun, and universe. Children will be fascinated by tidbits of information about each planet in our solar system. Hardback, 26 pages.

Reading Level: Primary

N756083—\$13

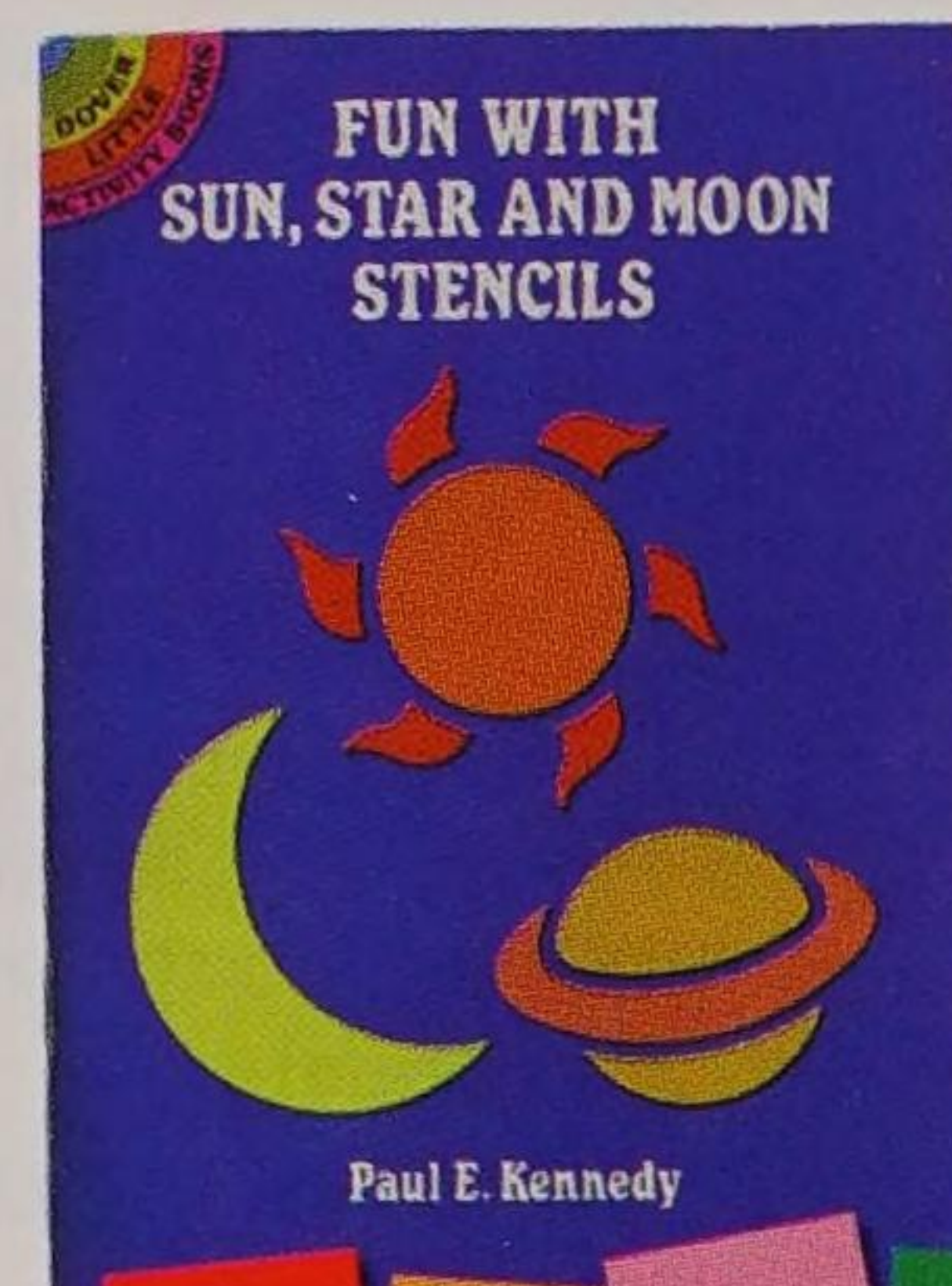
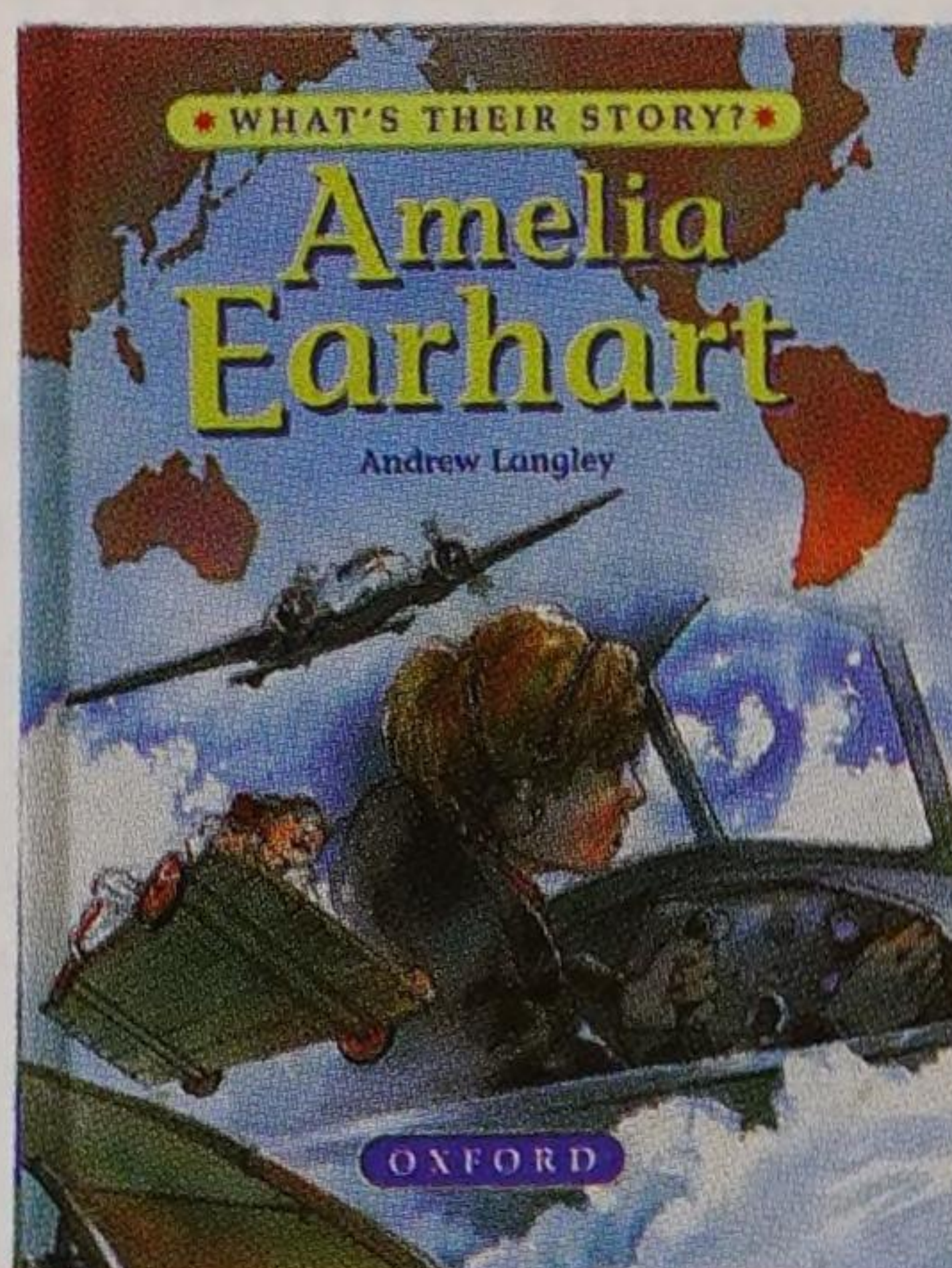
WHAT'S THEIR STORY? AMELIA EARHART

New!

A well-told, beautifully illustrated biography for young readers. Amelia Earhart flew into history through her courage and skill as a pilot. For women she was a shining example of freedom, opportunity, and success. Her story is truly dramatic, from her triumph as the first woman to fly the Atlantic, to her mysterious and tragic disappearance over the Pacific. Hardback, 30 pages.

Reading Level: Intermediate - Middle School

N756079—\$14



New!

FUN WITH SUN, STAR AND MOON STENCILS

Youngsters can produce their own cosmic universe with this fascinating collection of pre-cut stencils. Six designs: outlining a shooting star, the planet Saturn, a crescent moon, two beaming suns, and a star can be used repeatedly to illustrate science projects, stories or decorating a classrooms.

N756059—\$1

FUN WITH STARS STENCILS

New!

This dazzling collection of celestial bodies lets youngsters create their own star-studded universe. Six different pre-cut patterns depict a circle of stars, a six-pointed star, five-pointed stars and other star-shaped motifs. Great for youngsters or adults for decorating purposes. This handy pocket-size booklet is made of heavyweight coated stock paper for durability.

N756060—\$1

Fax Orders Free
1-888-534-6784



LEGO BASIC AIRPORT #779249 **New!**

1,161 elements

Build an airport with lots of free scope for the imagination, using LEGO bricks in different shapes and sizes including many special pieces...wheels, doors, windows, propellers, and decorated bricks. Ages 3 and up.

N779249—\$85.25



LEGO BASIC AIRPORT #779288 **New!**

1,371 elements

Destination: Anywhere! Airplanes and helicopters are taking off and landing all day long. This set includes figures, windows, wheels, and propellers, and encourages children to reproduce daily life as well as build imaginatively. Ages 5 and up.

N779288—\$68.25

LEGO DUPLO TOOLO **EXTRA TOOLS** **New!**

It's handy to have extra tools with your LEGO DUPLO Toolo sets.

N775098 Toolo Screwdriver—\$2.75

N775087 Toolo Wrench—\$2.75



LEGO DUPLO TOOLO

- Adds a new dimension to construction
- Introduces children to basic tools—screwdrivers and wrenches
- No small parts—the screws are built-in and cannot be lost or swallowed

Real tools! Huge constructions! The bigger, the better. Children love it—they can create fantastic race cars and mighty construction machines that lift, turn and bend! Cranes, helicopters, excavators. . . whatever their imagination allows. With Toolo, the possibilities are endless.



GIANT LEGO DUPLO TOOLO AIRPORT **New!**

#779121

97 elements

Calling all little engineers: construct airplanes, helicopters, cranes with hooks to collect small parts, or several other variations. Includes beams and wings, big wheels, hoses, cabs, hooks, figures, five screwdrivers, and one wrench.

N779121—\$91



LEGO DUPLO TOOLO SUPPLEMENT SET #779123

56 elements

For bigger, taller constructions, supplement with construction elements, wheels, a cockpit/excavator element, hooks, and other special elements.

N779123—\$53.25

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AQUAPORT

AQUAPORT LAUNCHER

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The newest evolution in bottle rocket launchers! Sure, the AquaPort has all the quality and safety of our previous model. What the AquaPort adds is *versatility*. No longer are you limited to one method of pressurizing your rockets.

Pump up with a:

Bicycle pump—its portable, lightweight, and best of all—inexpensive! Requires no accessories (other than the bike pump). We recommend a good quality pump with a locking hose end.

Compressed air source—quick, and reliable. Requires additional purchase of the Gauge Manifold Accessory (see below for more info).

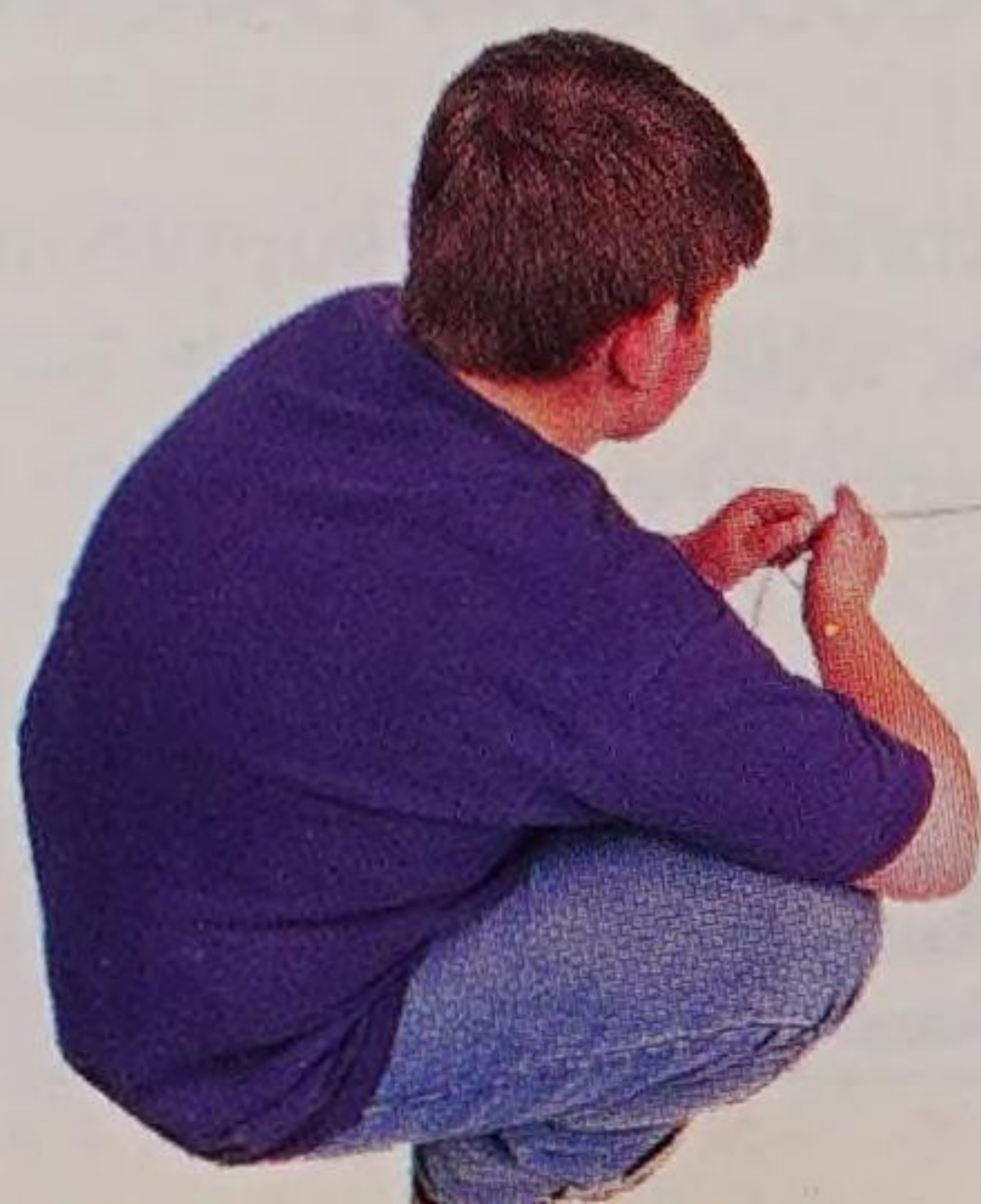
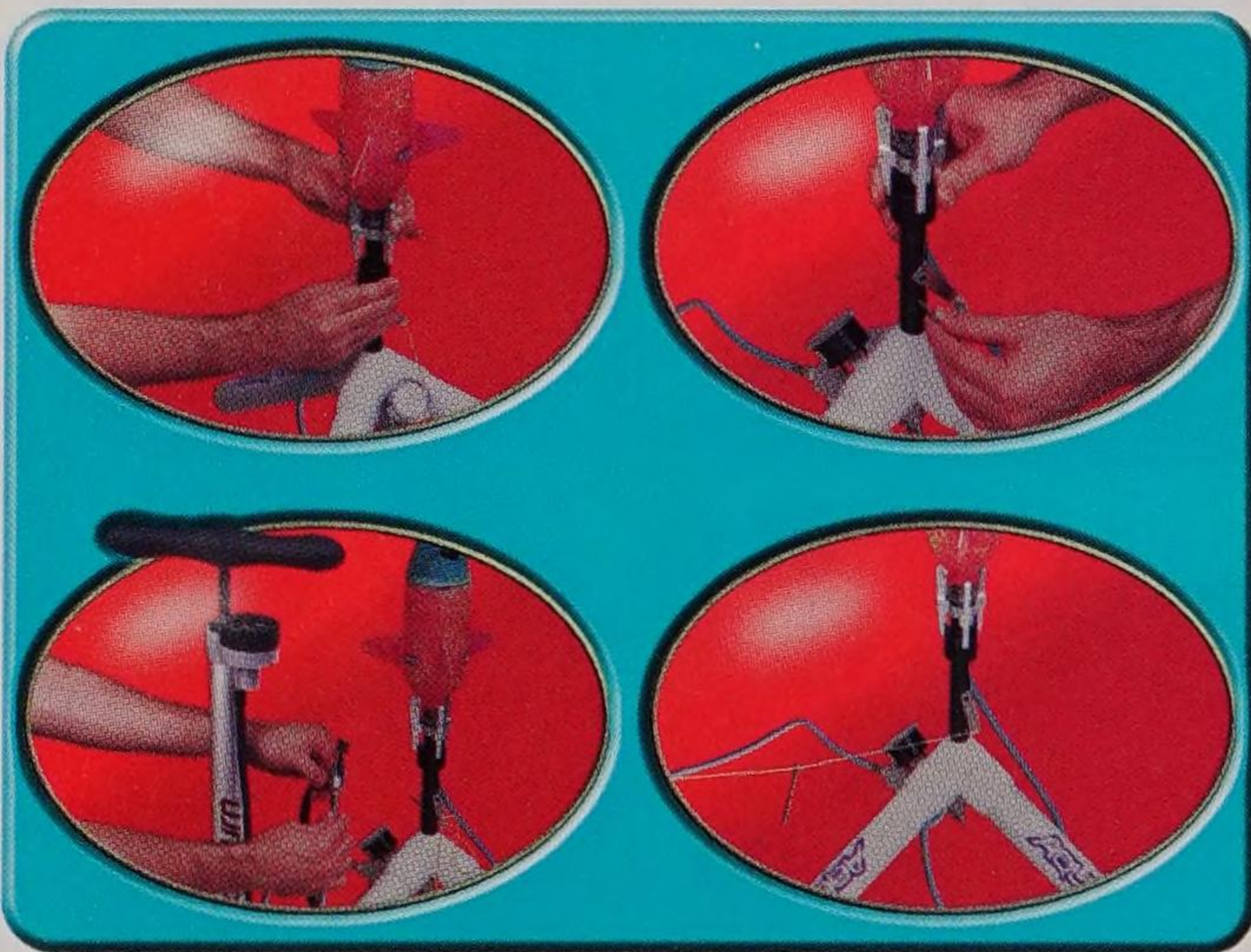
Now that's versatility. With the optional accessories, you can tailor your launching system to fit your usage. Save money by purchasing only what you need.

N755499 AquaPort Launcher
\$139

GAUGE/MANIFOLD ACCESSORY

While the Gauge/Manifold Accessory is a must for using compressed air sources with the AquaPort, its also very handy for use with a bike pump. The built-in relief valve limits bottle pressure to a safe 90 psi (preventing bottle ruptures) and the precision gauge provides accurate bottle pressure readings. Also features an in-line check valve.

N719981—\$89



DELUXE PORT PUMP (PICTURED ABOVE)

This top-notch bike pump will stand up to years of use. It features all-metal construction, and a heavy-duty rod that resists bending. Pumping up a bottle rocket is less work with this pump because of precision seals that prevent internal leaking. Also features a top-mounted pressure gauge, a locking hose end, and a contoured, rubberized handle.

N719978 \$59.95

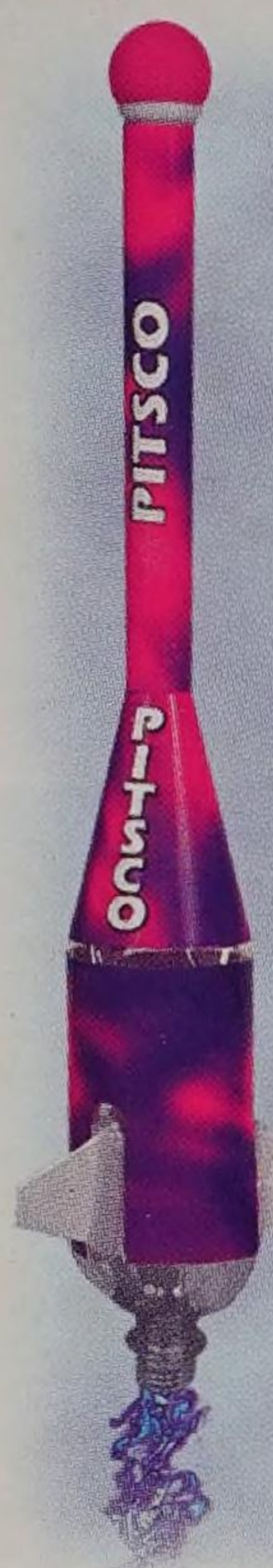
ECONO-PORT PUMP

This sturdy but economical tire pump features a pressure gauge and a locking hose end, both of which are necessary for launching bottle rockets.

N755706—\$19.95



Fax Orders Free
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STRATOBLEASTER

BOTTLE ROCKET KIT - WITHOUT CO₂

This fantastic kit has all the materials students need to build a high-flying bottle rocket! It's a great way to introduce them to building bottle rockets, giving them a measure of initial success with a proven design.

The innovative design features a 20 oz. plastic soft drink bottle that functions as a propellant tank, and a ping-pong ball that works as a nose cone and recovery system.

N755746—\$4.55



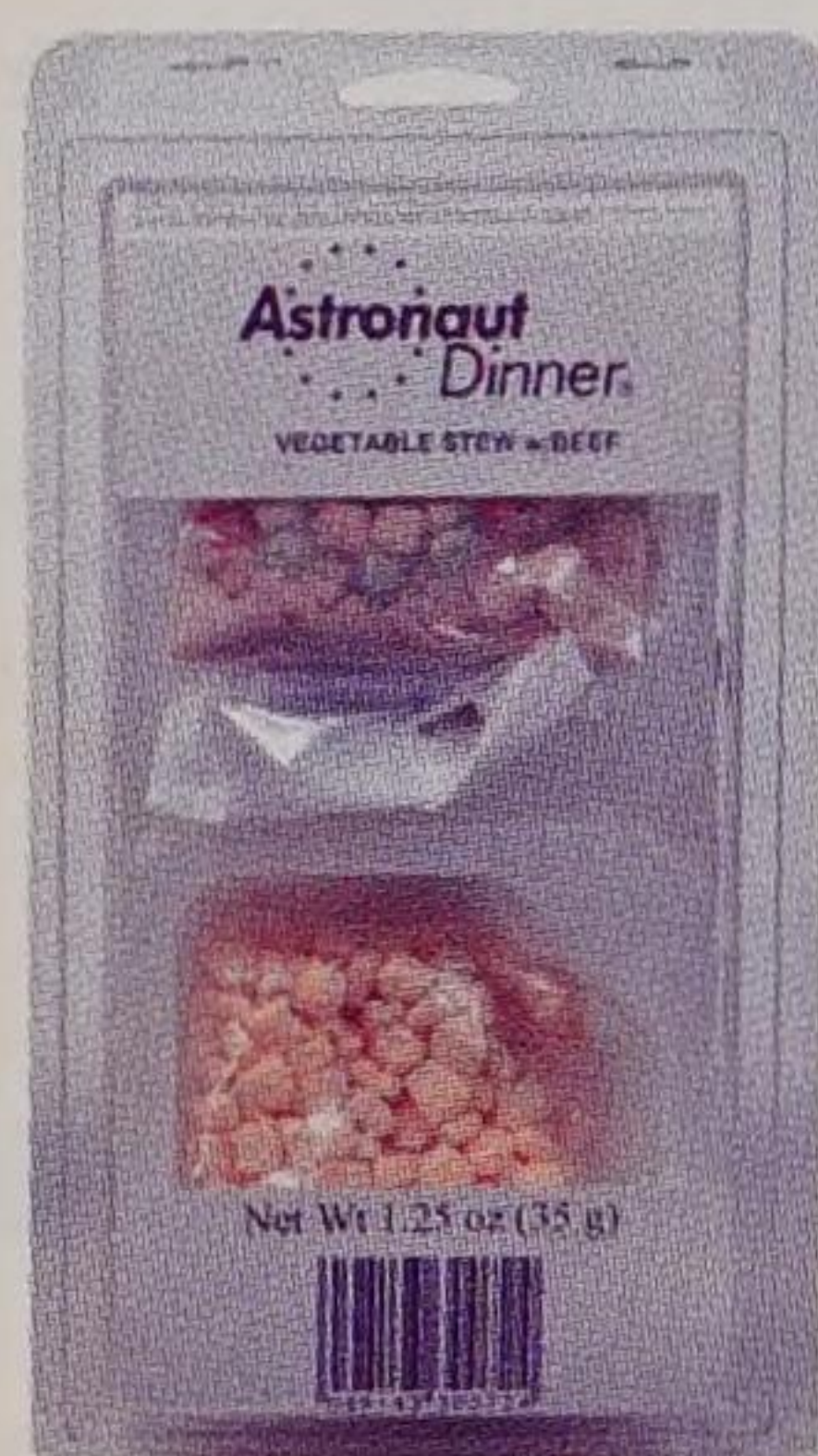
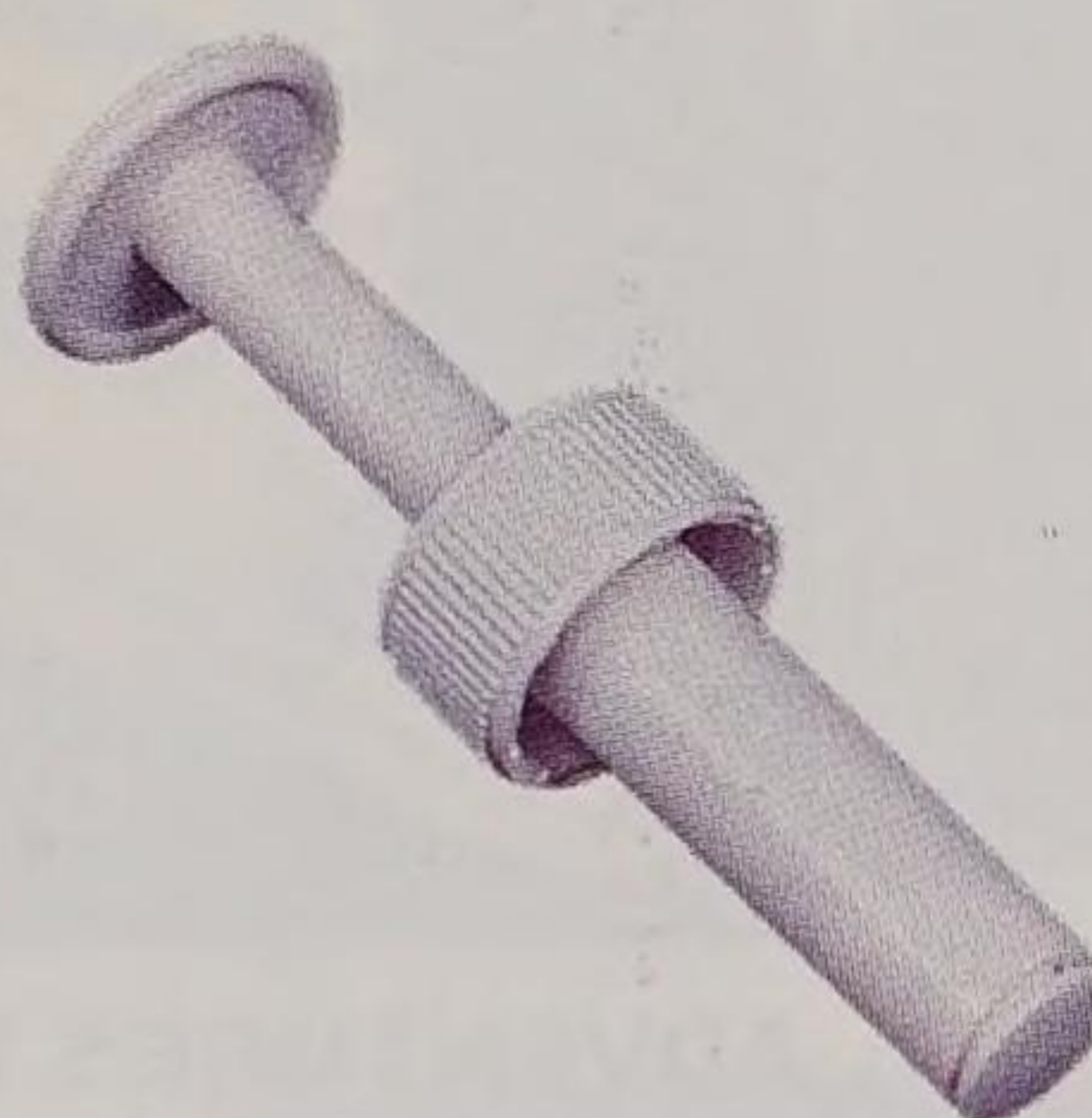
COOL MELT GLUE GUN

This gun uses glue that melts at a lower temperature than ordinary glue guns. Due to the lower temps, it is safer for young hands, and will not melt through plastic bottles and many plastic parts. Uses oval-shaped glue slugs that cannot be confused with hot melt slugs.

N752064—\$12.95

N752061 Oval Glue Slugs

(30 in pkg)—\$6.30



ASTRONAUT FOOD SERIES

Now you and your students can enjoy the same food that is served in a lofty place with real atmosphere. These freeze-dried delicacies are similar to those eaten by U.S. astronauts on past and present space missions.

N754120 Cheese Pizza—\$3.00

N754073 Neapolitan Ice Cream—\$2.25

N754072 French Fries—\$1.00

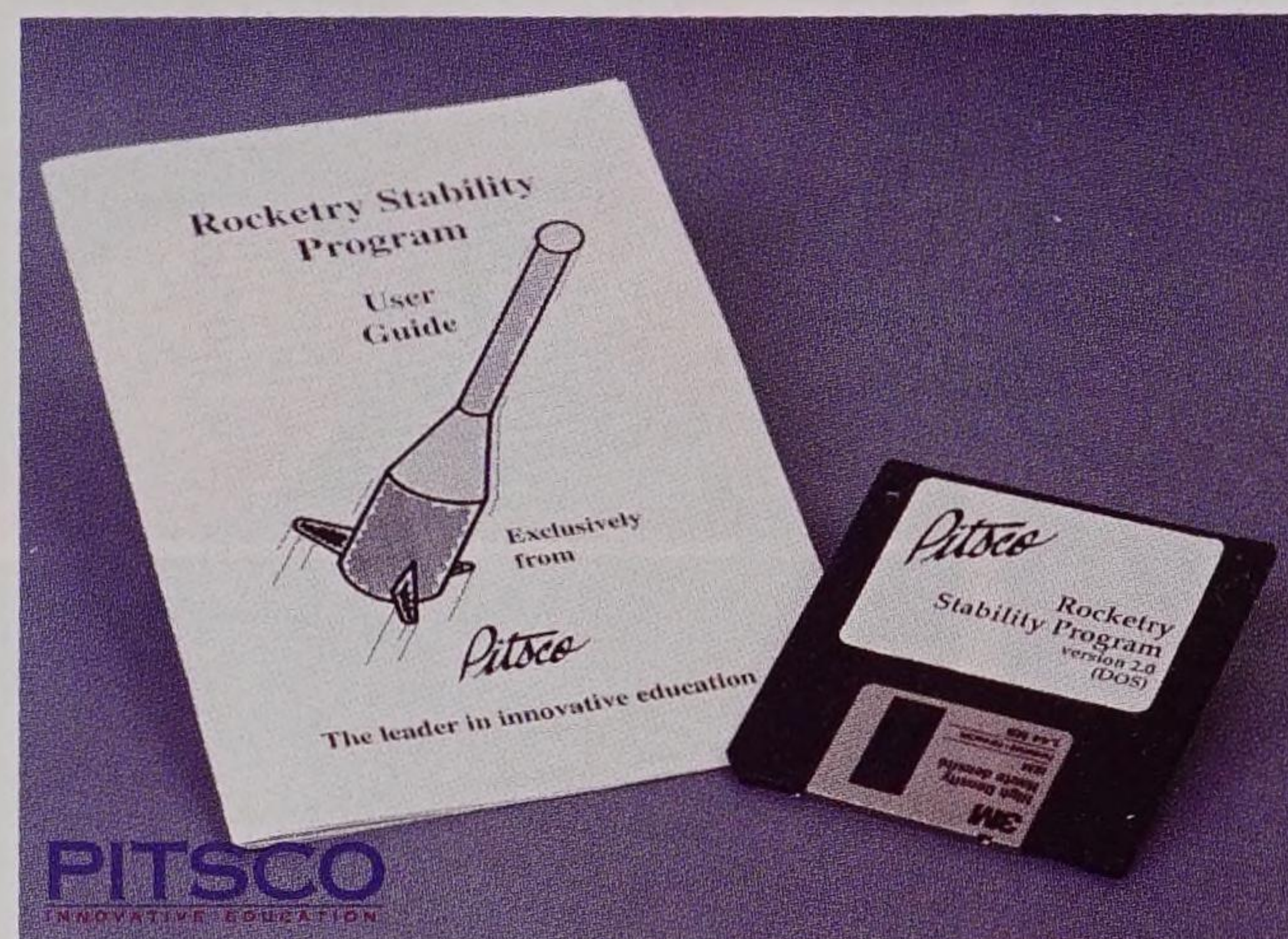
N754007 Ice Cream Sandwich—\$2.50

N754114 Astronaut Ice Cream & Foods Bk Package—\$3.95

N754855 Eggs/Applesauce Breakfast—\$4.95

N754857 Rice & Chicken Dinner—\$4.95

N754856 Beef Stew Dinner—\$4.95



ROCKETRY STABILITY PROGRAM

This software is an excellent addition to any water rocket design project. It provides a calculated, preflight prediction of any water rocket design's flight performance.

Rocketry Stability Program prompts you to input specific details of your design—dimensions, nose cone shape, number of fins, location of CG, etc. The program will then complete a mathematical analysis of your design's stability. You can even make "virtual design changes" to see how they affect flight performance.

N713467 DOS—\$25

THE PUMPER

This device was created to keep your soda fizzy, but it's also extremely handy when building bottle rockets. Pump up the bottle before marking for fin placement or attaching fins. The air pressure will keep the bottle rigid, making the task much easier.

N751995—\$3.25



SHUTTLE IN ORBIT WALL MURAL

This giant wall paper mural creates an exciting learning environment for your students. Printed in full-color, it measures a big 8'-3" (h) x 13'-8" (w). Put the finishing touch on that blank wall you've been wanting to fill. Mural comes in 8 separate rolls and is hung like regular wall paper using dry cellulose paste.

N751462—\$65

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New!

ISAAC ASIMOV'S INNER AND OUTER PLANETS VIDEOS

These fascinating videos shed light on all the planets in the galaxy we Earthlings call home, the Milky Way. The concise format of the videos will hold students' attention while giving them a basic, well-rounded knowledge of the planets.

In addition to fascinating scientific facts, the videos address intriguing issues such as: How did ancient civilizations perceive these mysterious heavenly bodies? How were they identified and observed by the early explorers? What was learned about the planets in past space missions? And finally, what does the future of mankind's space endeavors hold in store for the planets? Teacher's Guide included with each video. Time: 9-15 minutes.

The Inner Planets

N956175 The Earth's Moon

N956173 Mercury: The Quick Planet

N956174 Venus: A Shrouded Mystery

N956176 Mars: Our Mysterious Neighbor

The Outer Planets

N956177 Jupiter: The Spotted Giant

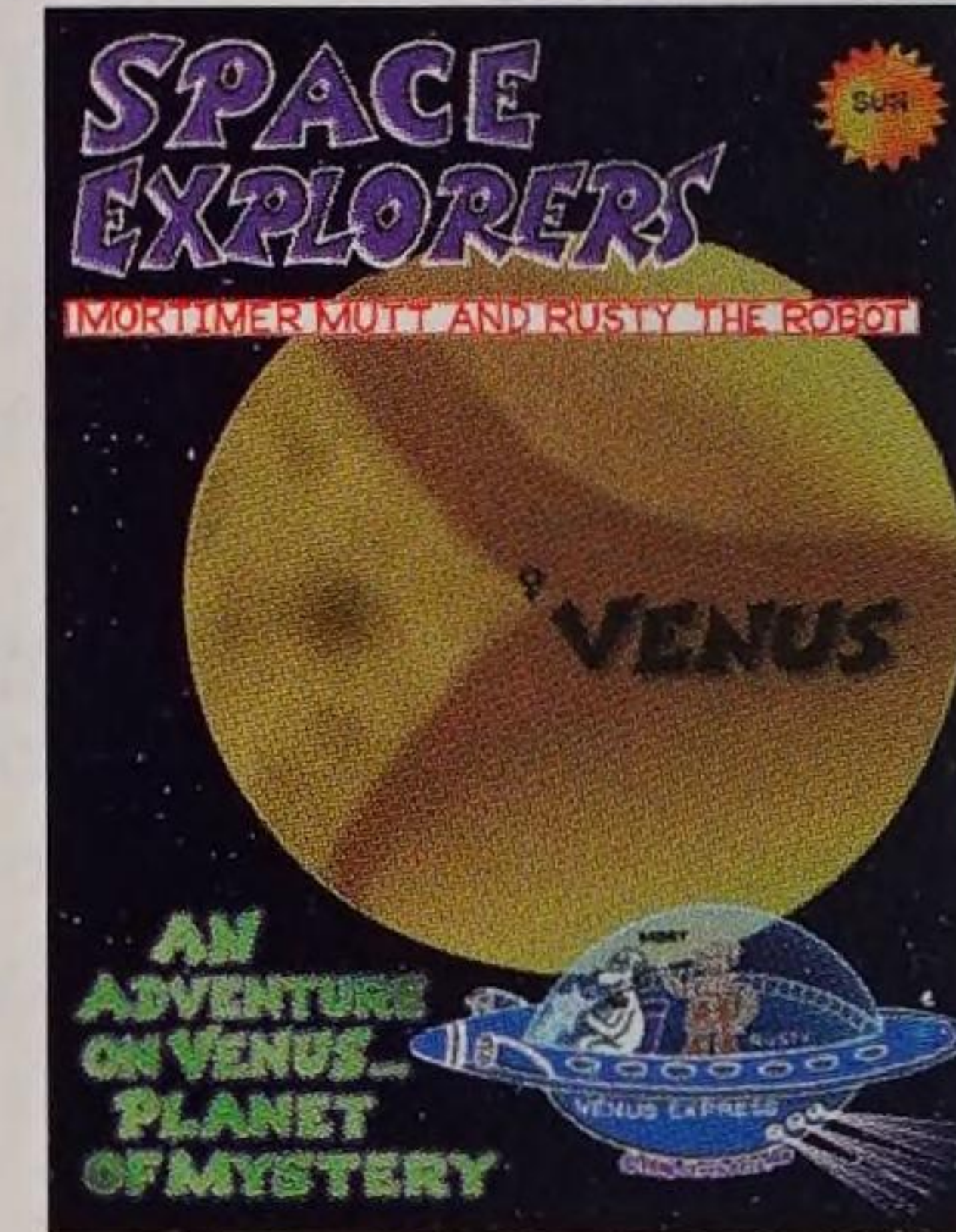
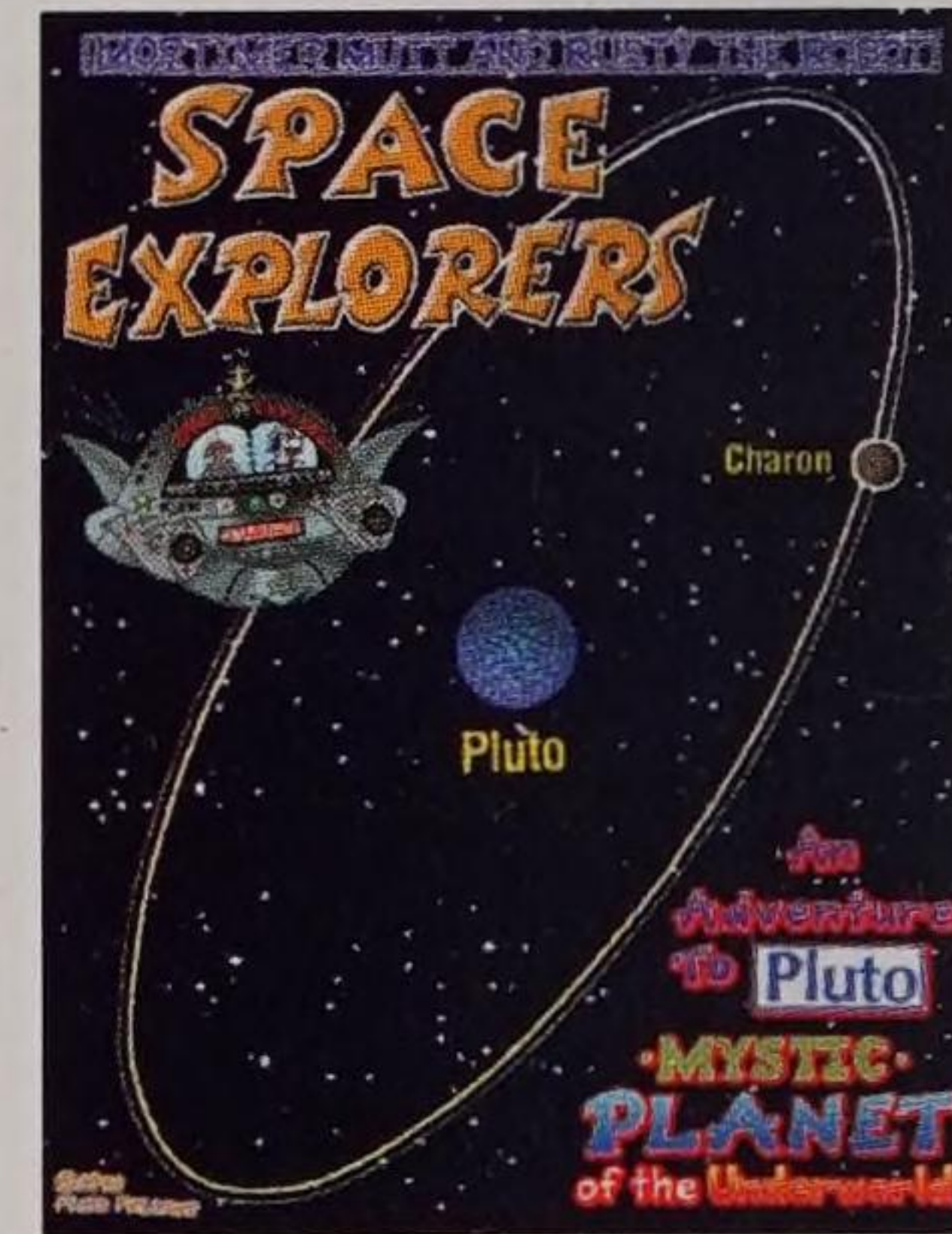
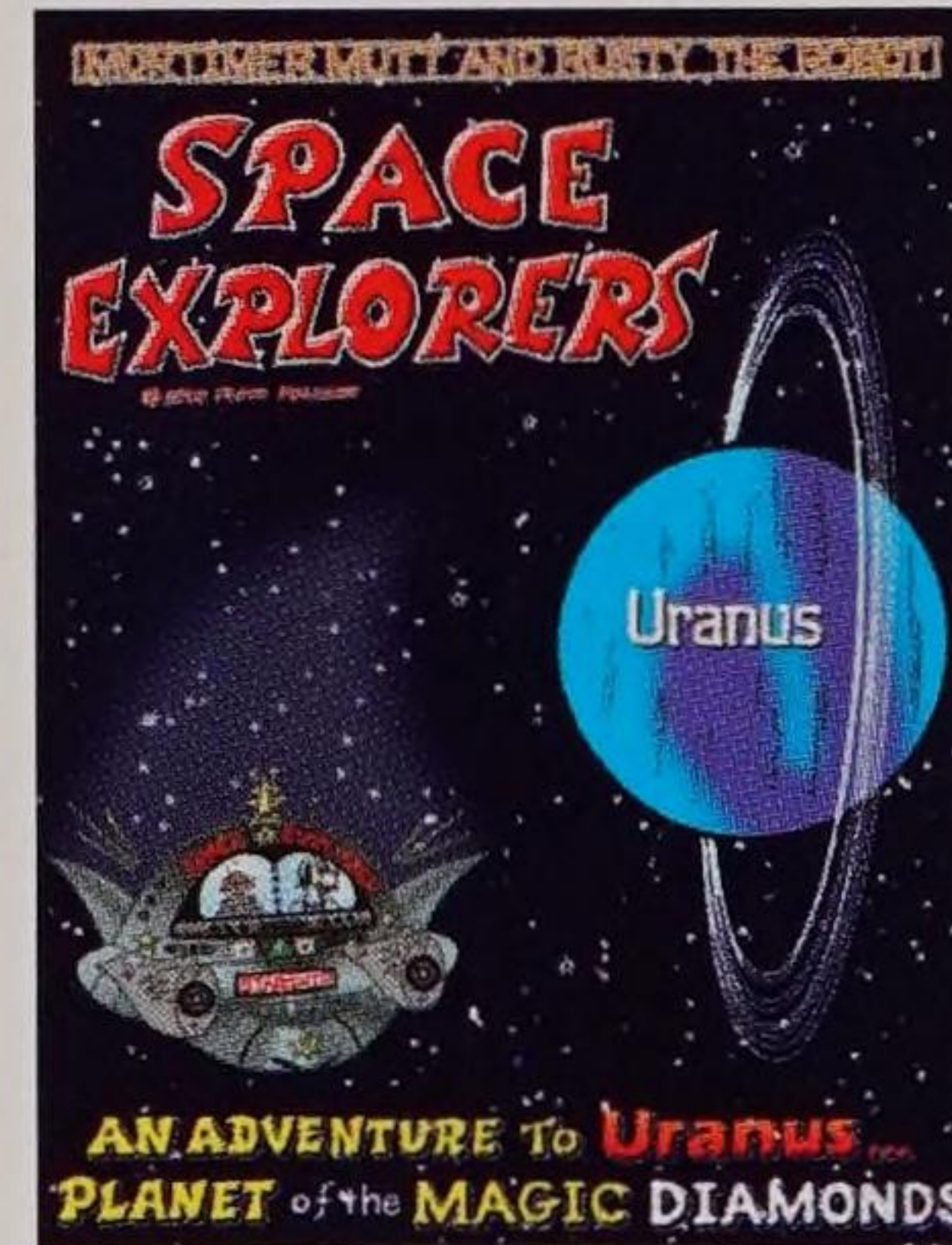
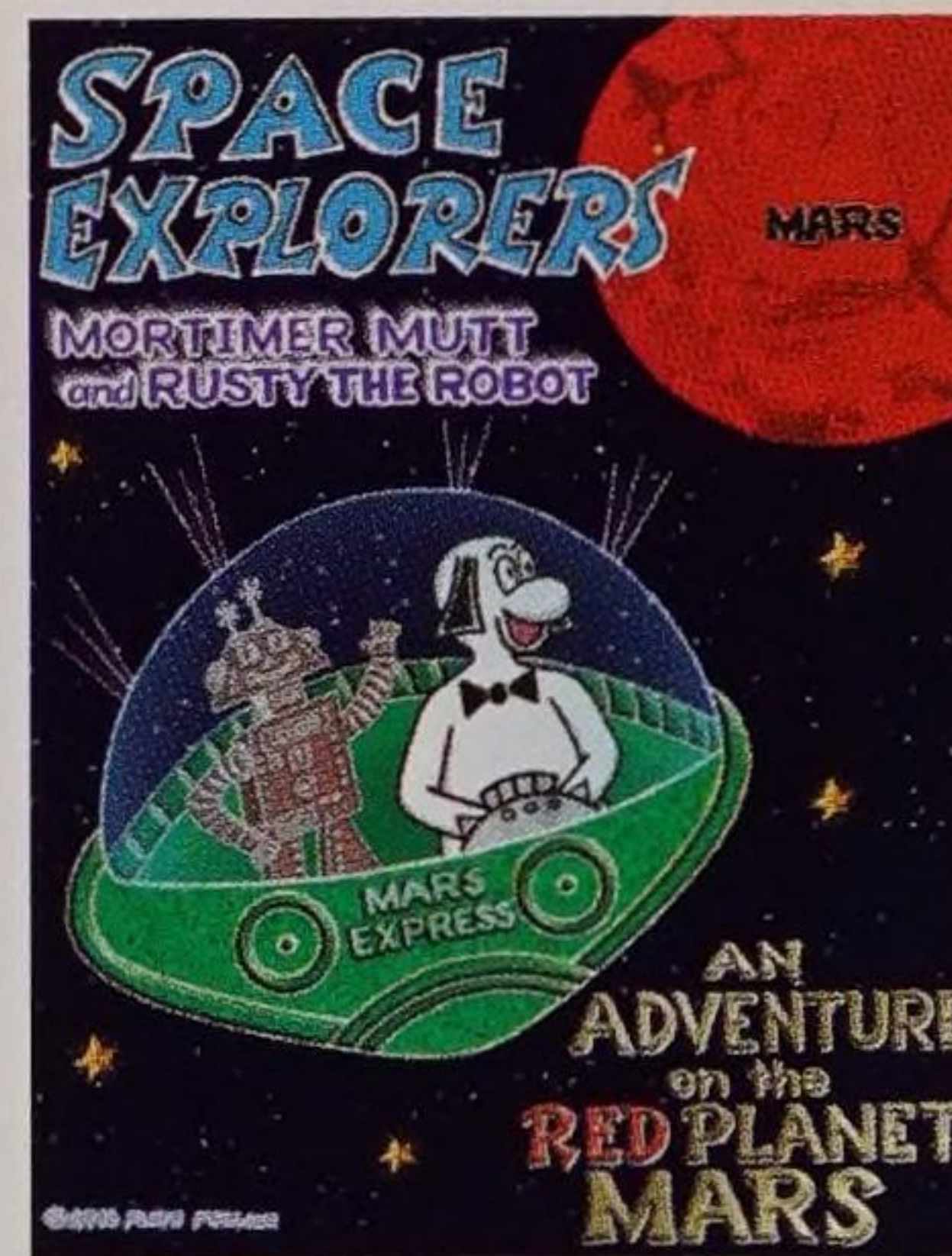
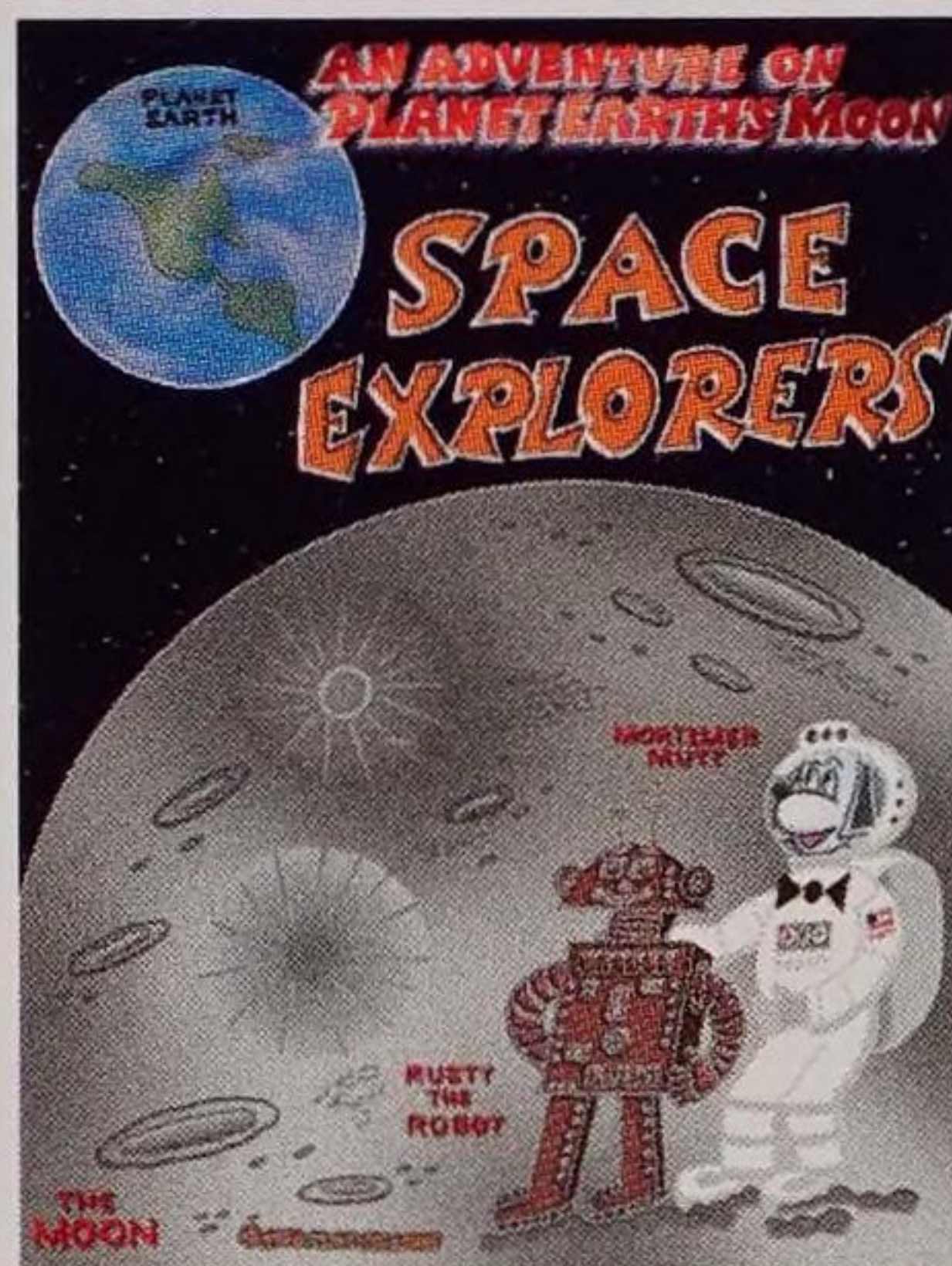
N956178 Saturn: The Ringed Beauty

N956179 Uranus: The Sideways Planet

N956180 Neptune: The Farthest Giant

N956181 Pluto: A Double Planet

\$20 EACH



ADVENTURES IN SPACE COMICS

Floyd Fellows

Ride along with Mortimer Mutt, Rusty the Robot, and other characters while learning about space, space exploration, and science. Young students will enjoy coloring the illustrations in these books.

Reading Level: Intermediate

N990014 Space Explorers - MARS, 21 pages

N990015 Space Explorers - MERCURY, 21 pages

N990016 Space Explorers - THE MOON, 21 pages

N990017 Space Explorers - VENUS, 22 pages

N920508 Space Explorers - URANUS, 24 pages

N920507 Space Explorers - SATURN, 24 pages

N920510 Space Explorers - PLUTO, 24 pages

N920506 Space Explorers - JUPITER, 24 pages

N920509 Space Explorers - NEPTUNE, 24 pages

\$2.95 EACH

SPACE EXPLORER'S COMICS TEACHER'S GUIDES

Once you capture children's imagination with Space Explorer's Comics, you can maximize their learning with these valuable Teacher's Guides. They are filled with activities, vocabulary words, fascinating facts to share with students, lessons, puzzles, coloring pictures and more.

N920499 The Moon Teacher Guide

N920500 Venus Teacher Guide

N920502 Saturn Teacher Guide

N920504 Neptune Teacher Guide

N920498 Mercury: Planet of the Sun Teacher Guide. All Guides \$1 EACH

N920497 Mars Teacher Guide

N920501 Jupiter Teacher Guide

N920503 Uranus Teacher Guide

N920505 Pluto Teacher Guide

New!

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EXCLUSIVE

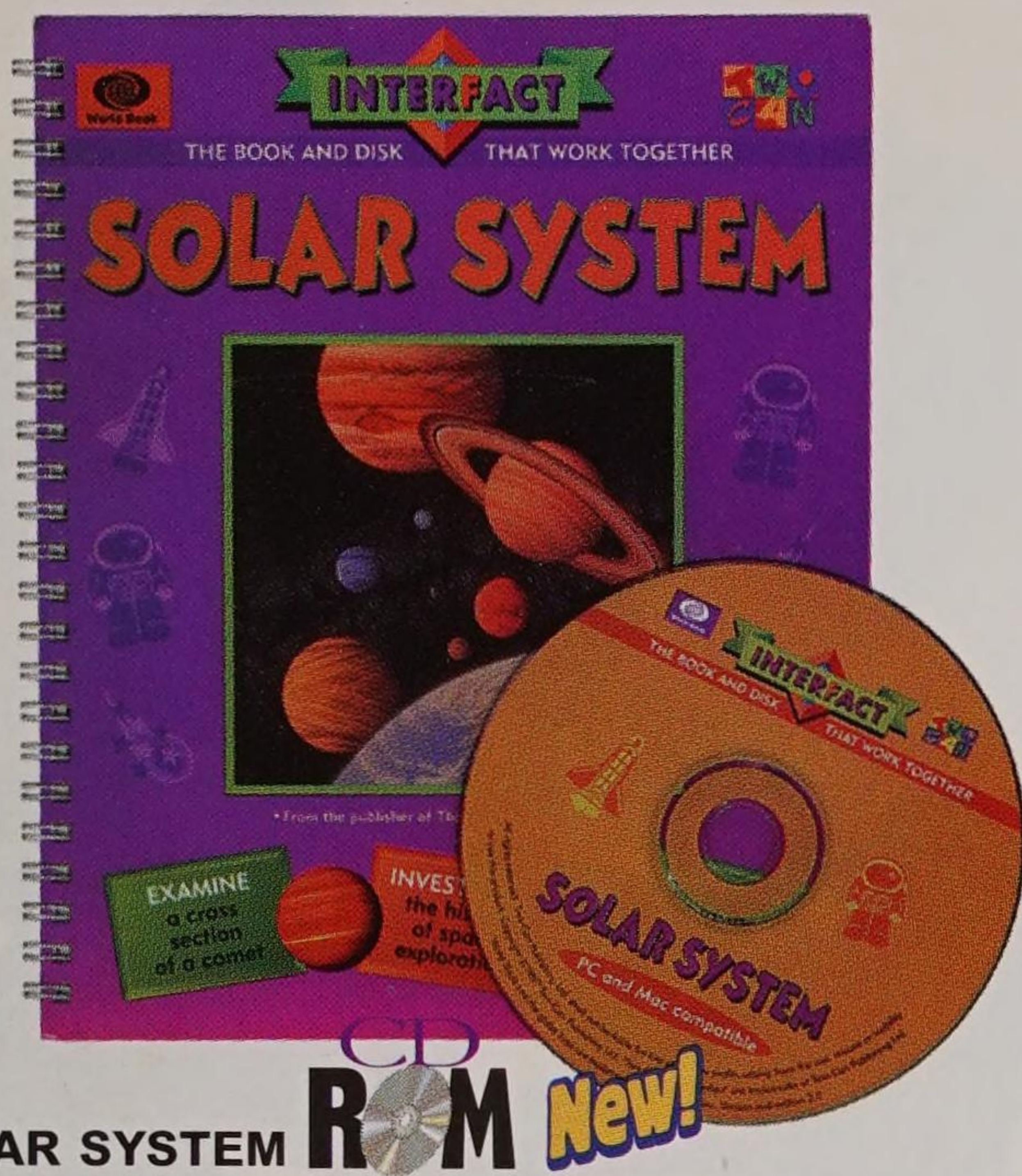
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SPACE EXPLORER'S PACKAGE

Includes all Asimov videos, comic books and teacher guides on this page. **N990082—\$195**

The finest education is useless without common sense.

E. F. Girard



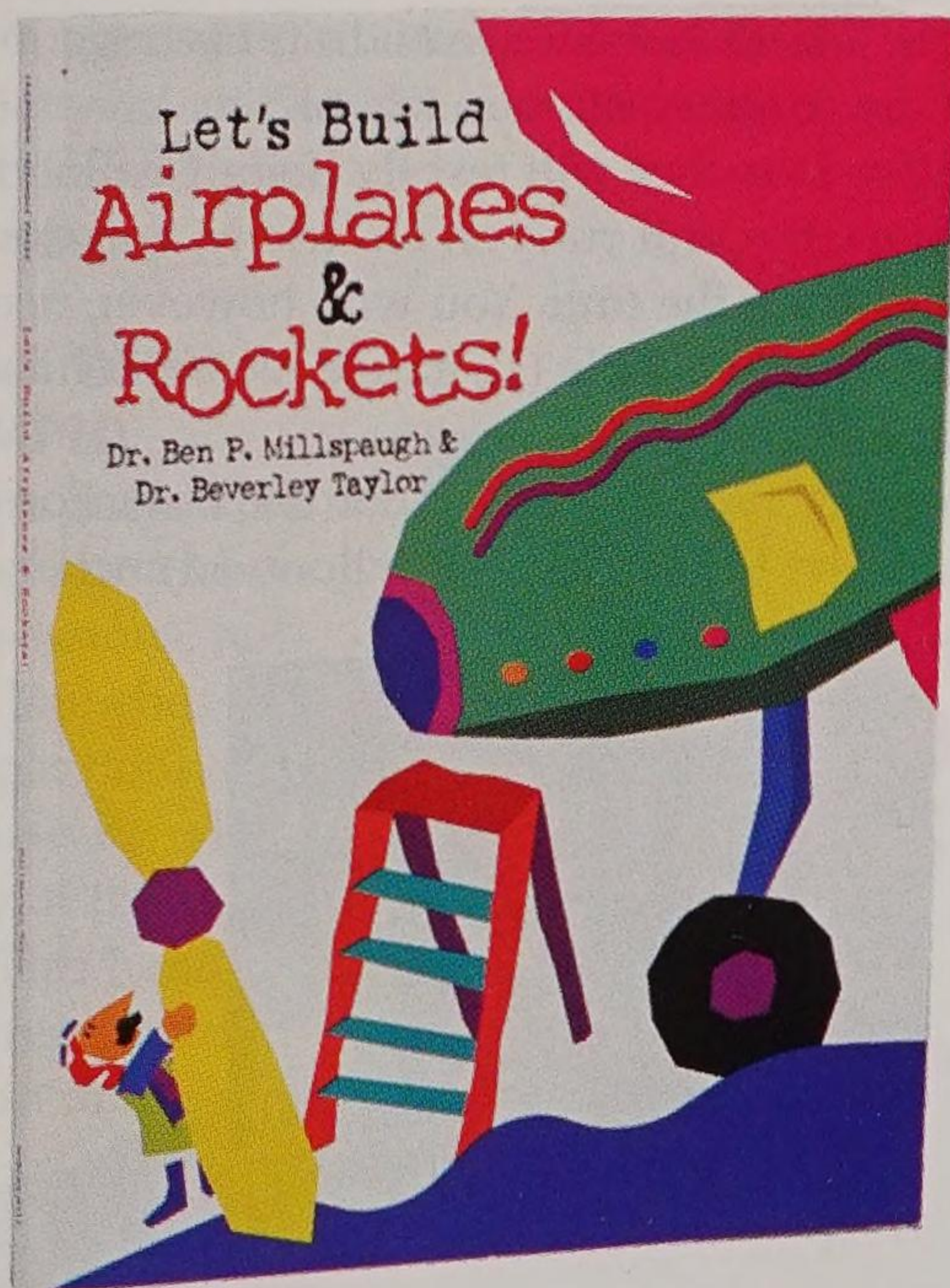
SOLAR SYSTEM

CD ROM New!

Explore the solar system with this interactive book and CD ROM. Students will be able to read about the solar system and apply the readings to exciting games, puzzles, and experiments on the CD ROM.

Reading Level: Intermediate

N756131—\$14.95



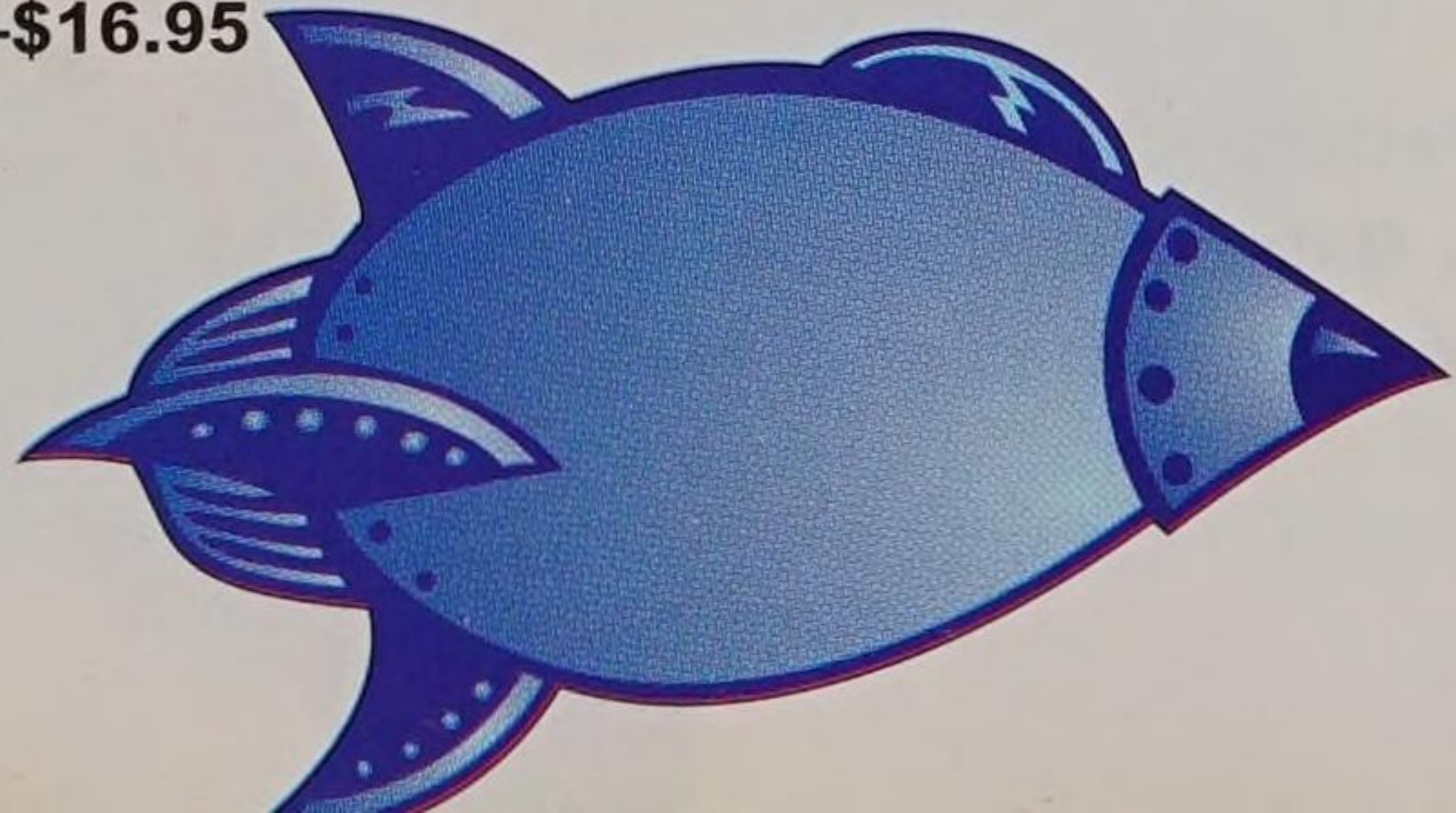
LET'S BUILD AIRPLANES AND ROCKETS

Ben Millspaugh and Dr. Beverly Taylor

America leads the world in aerospace technology, so let's instill that national pride in our young. These projects and the supporting text will give a hands-on visualization of the steps we've taken to reach the stars. Materials used are inexpensive and easy-to-obtain. This is truly a fun approach to education! Paperback, 131 pages.

Reading Level: Elementary - Middle School

N754495—\$16.95



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STRAW ROCKET LAUNCHER

New!

EXCLUSIVE

Students can design and build their own miniature straw rockets and test them on the Straw Rocket Launcher! Just like early rocket pioneer Robert Goddard, they can conduct scientific experiments by varying the trajectory angle and launch energy. Rockets can be launched to distances up to 50 feet!

The Straw Rocket Launcher features extremely simple operation. No power or air source is required; the pneumatic force is developed by releasing a weighted drop rod in the cylinder. The force of the launch can be controlled by varying the release height of the rod.

Building Straw Rockets is a fun, inexpensive activity and a great way to introduce students to rocketry. Use with 1/4" diameter straws. Recommended for use in a large, open indoor area, such as a gymnasium. Base size: 9" x 11". Height: 25".

FEATURES

- Launches straw rockets up to 50 feet
- 1/4" diameter straws
- Simple operation
- Adjustable trajectory angle with angle gauge
- No power or air source required
- Clear tube displays internal parts
- Adjustable launch force

N720426—\$139

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The object of education is to prepare the young to educate themselves throughout their lives.

Robert Maynard Hutchins



HOT AIR BALLOON LAUNCHER **PITSCO** INNOVATIVE EDUCATION

Get your program off the ground with this quality launcher.

Your students will enjoy producing their very own hot air balloon using tissue paper. With design details available in Pitsco's book *Hot Air Ballooning Student Guide*, this launcher provides the final link in successful balloon flights.

Designed with the student's safety in mind, the Pitsco Hot Air Balloon Launcher inflates balloons with ease. The unit features a "cool-to-the-touch" chimney, a safety grate, a piezo-electric lighter, and connectors to attach the unit to standard propane canisters (not included).

N713268—\$295

PROPANE CYLINDER FOR BALLOON LAUNCHER

N752100—\$4.95

Additional charge for shipping required. See Policies page for explanation.

HOT AIR BALLOON **PITSCO** INNOVATIVE EDUCATION EXPLORE-A-PAK

EXCLUSIVE

This activity is a lifting experience for you and your students! Everything is included for 30 students to make a fantastic hot air balloon—multi-colored tissue paper, glue sticks, string, and more. A gore pattern helps the students cut each balloon panel for a perfect fit. A student booklet about the history of hot air ballooning including puzzles provides educational background for the activity.

N990001 Hot Air Balloon Explore-A-Pak—\$160

N990003 Hot Air Ballooning Student Guide—\$2

N990005 Up With Balloons How & Why Video—\$29

N990002 Gore Pattern—\$3.50

N990004 Hot Air Ballooning Teacher Guide—\$7.50

N990006 Hot Air Balloon Design & Make Video—\$29



INDOOR BALLOON TESTER **PITSCO** INNOVATIVE EDUCATION

Before the big launch outside, wouldn't it be nice to test student balloons in the confines of your school?

This innovative launcher will test fly hot air balloons safely and effectively. Since the unit runs on electricity, you don't have to worry about fumes from the unit. You will, however, need to have a heavy extension cord available (12 gauge recommended) for optimum performance.

Note: This unit is intended for indoor use only. For outdoor launches, purchase the Pitsco Hot Air Balloon Launcher.

N713263—\$79



Fax Orders Free
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KESTREL POCKET WIND METER

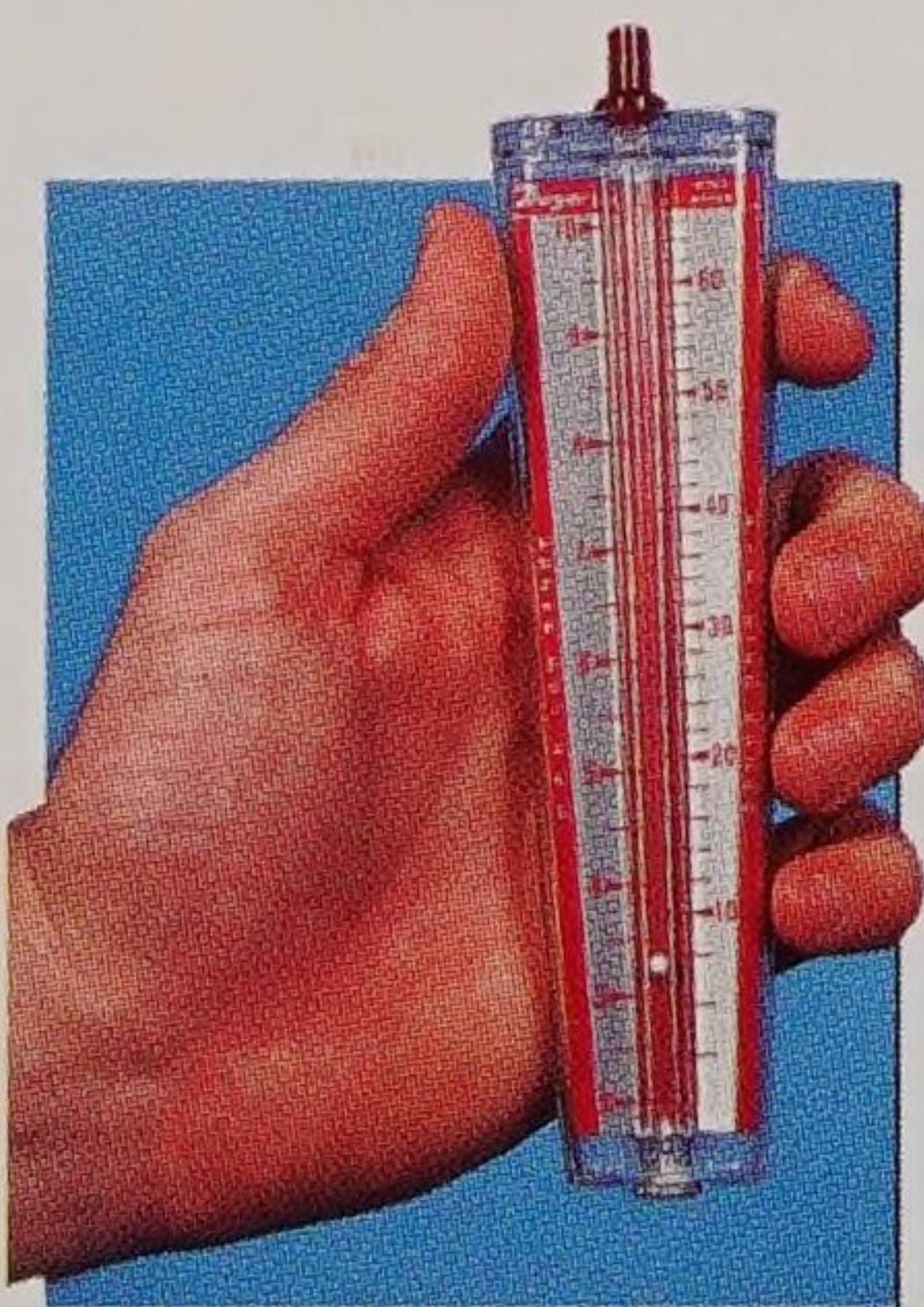
Get accurate, fast and easy wind speed measurements anywhere, anytime. The Pocket Wind Meter features a large LCD window which is easily read and offers 3 modes: wind speed, average wind speed, and maximum wind speed. An ultralight anodized aluminum impeller yields high accuracy (within 3%) and a low startup speed. The rugged unit is waterproof and floats. Includes a lanyard and a hard case easily snaps on and off. Battery included!

N754910—\$89

PORTABLE WIND METER (MPH)

Take the guesswork out of rocket launches, kite flying sessions, hot-air balloon launches, glider competitions, or any other activity where the velocity of the wind is a factor. This handy unit measures the wind velocity with dual ranges (2-10 and 4-66 mph).

N715557—\$16.50



KITE EXPLORE-A-PAK

PITSCO
INNOVATIVE EDUCATION

EXCLUSIVE

Introduce your entire class to the educational fun of making fantastic kites! The Kite Explore-A-Pak includes everything a class of 25 students needs to complete this high flying activity—colorful tissue, string, glue sticks, teacher guide with student worksheets that can be duplicated to accommodate your class size, and more!

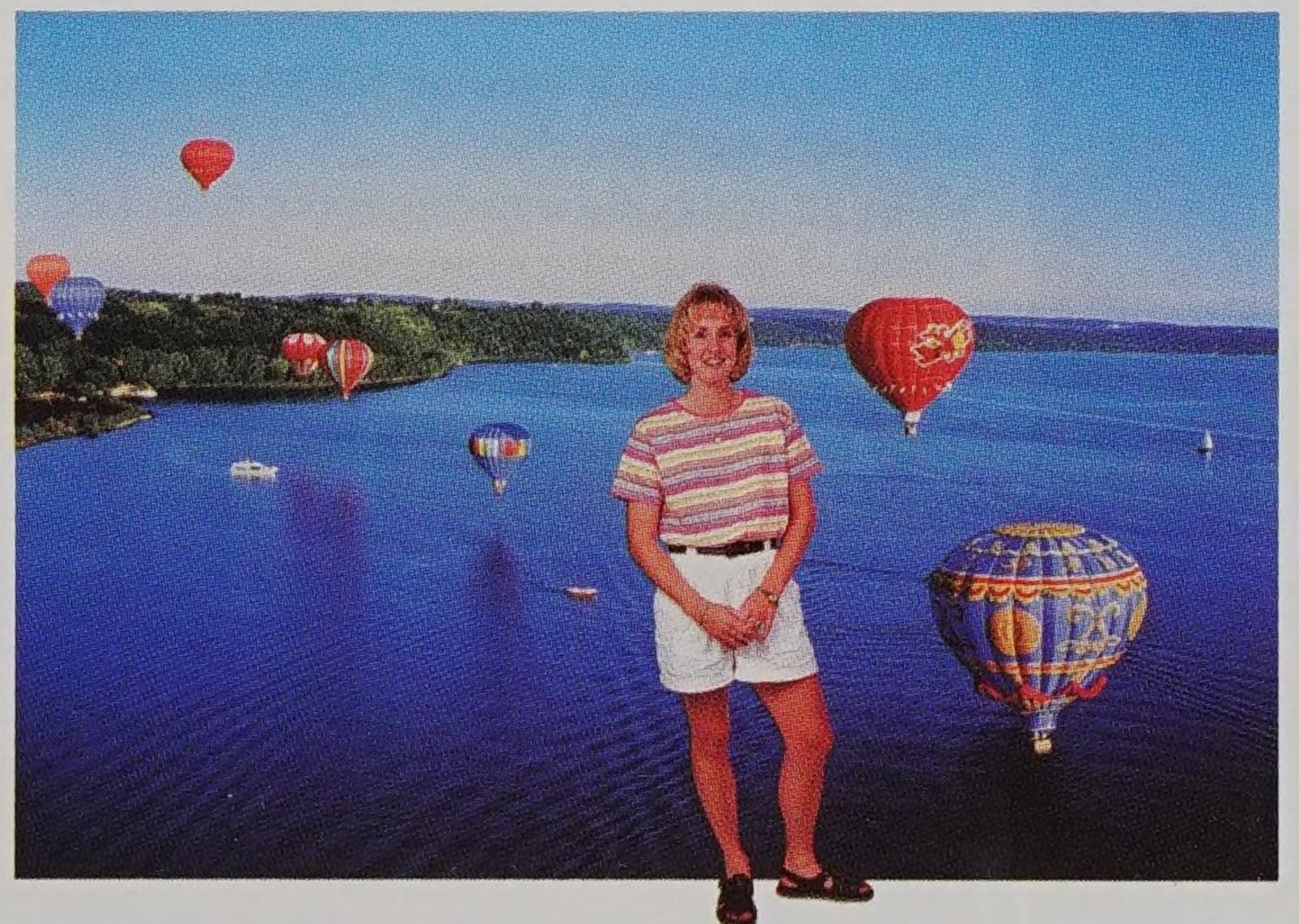
N990007—\$60

BALLOONS IN FLIGHT MURAL

Lift your students to new heights with this bright, colorful wall mural. A great addition to balloon building, you can use this mural on one wall of your classroom as a motivational tool.

Covers an area 8'-3" x 13'-8".

N750889—\$65



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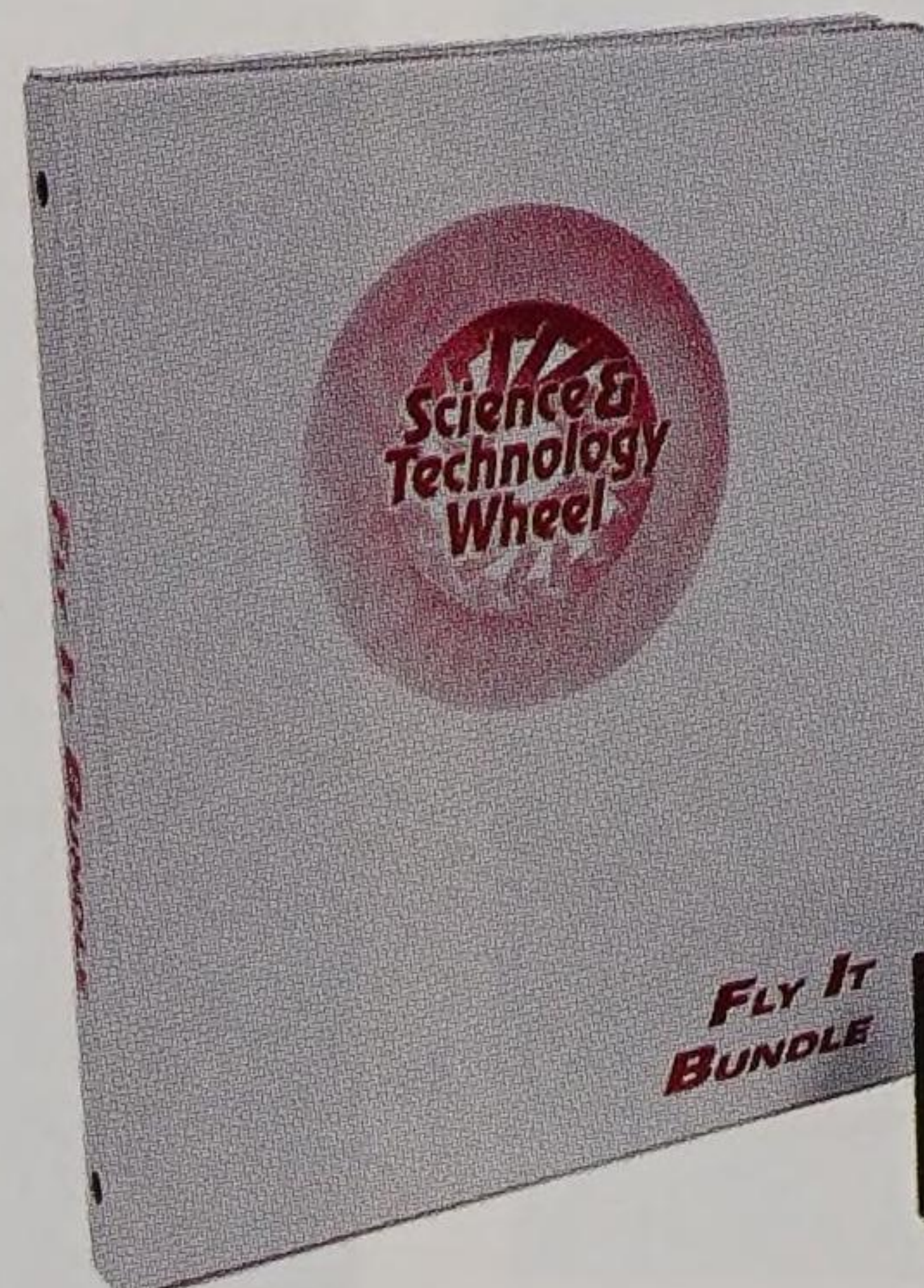
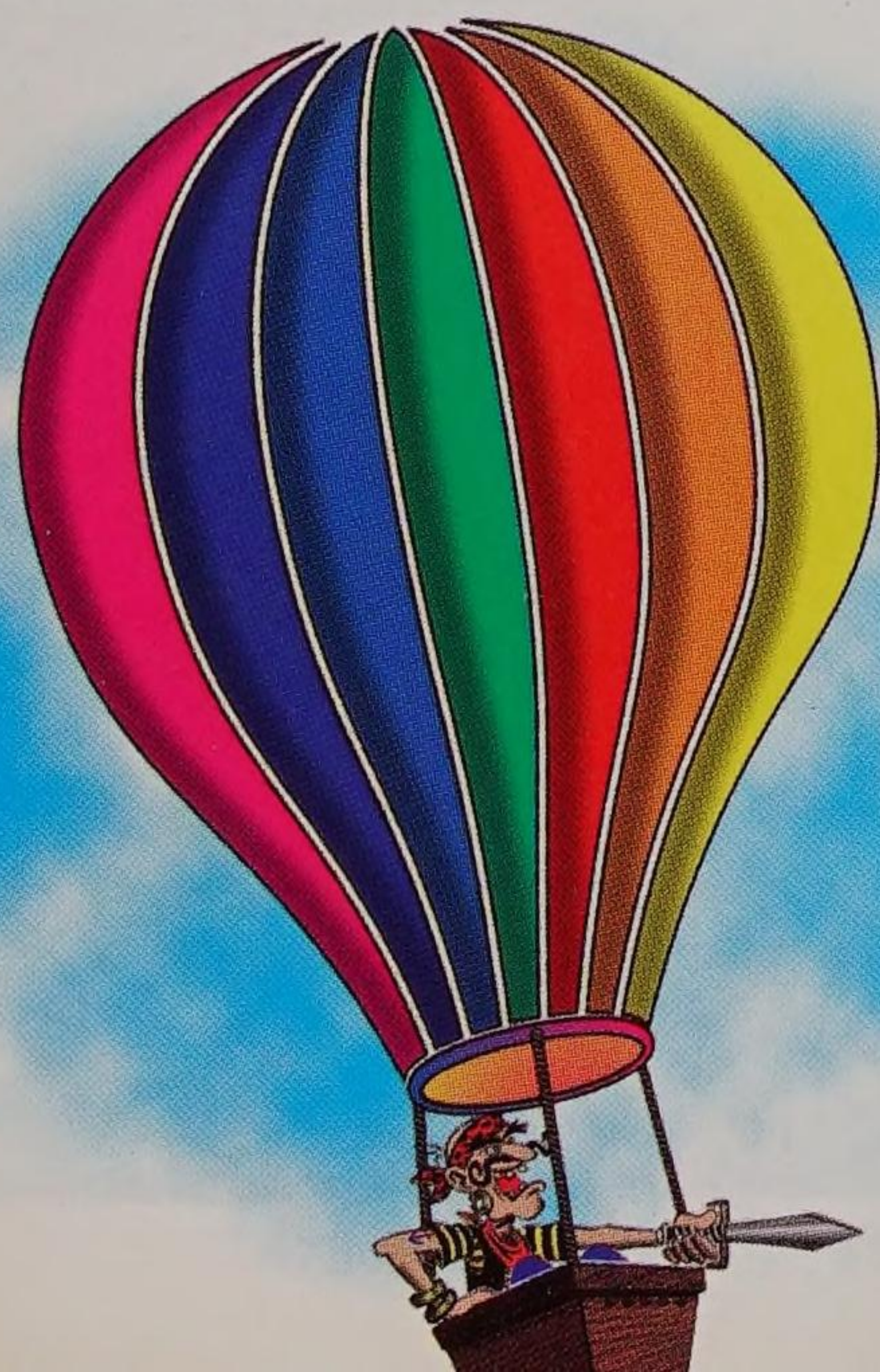
SCIENCE & TECHNOLOGY WHEEL-FLY IT! BUNDLE

EXCLUSIVE

A Macintosh computer-based curriculum that helps students explore aerospace. Students do exciting hands-on projects like build bottle rockets, hot air balloons and parachutes.

Great for use with the Pitsco StratoBlaster, BalloonPak and ChutePak. Requires HyperCard 2.1 or later.

N990019 Macintosh—\$120



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PITSCO **LEGO** **dacta**
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The Planetary Society's
**RED ROVER,
RED ROVER**
PROJECT



**"For the latest information
check out our website @
www.pitsco-legodacta.com"**

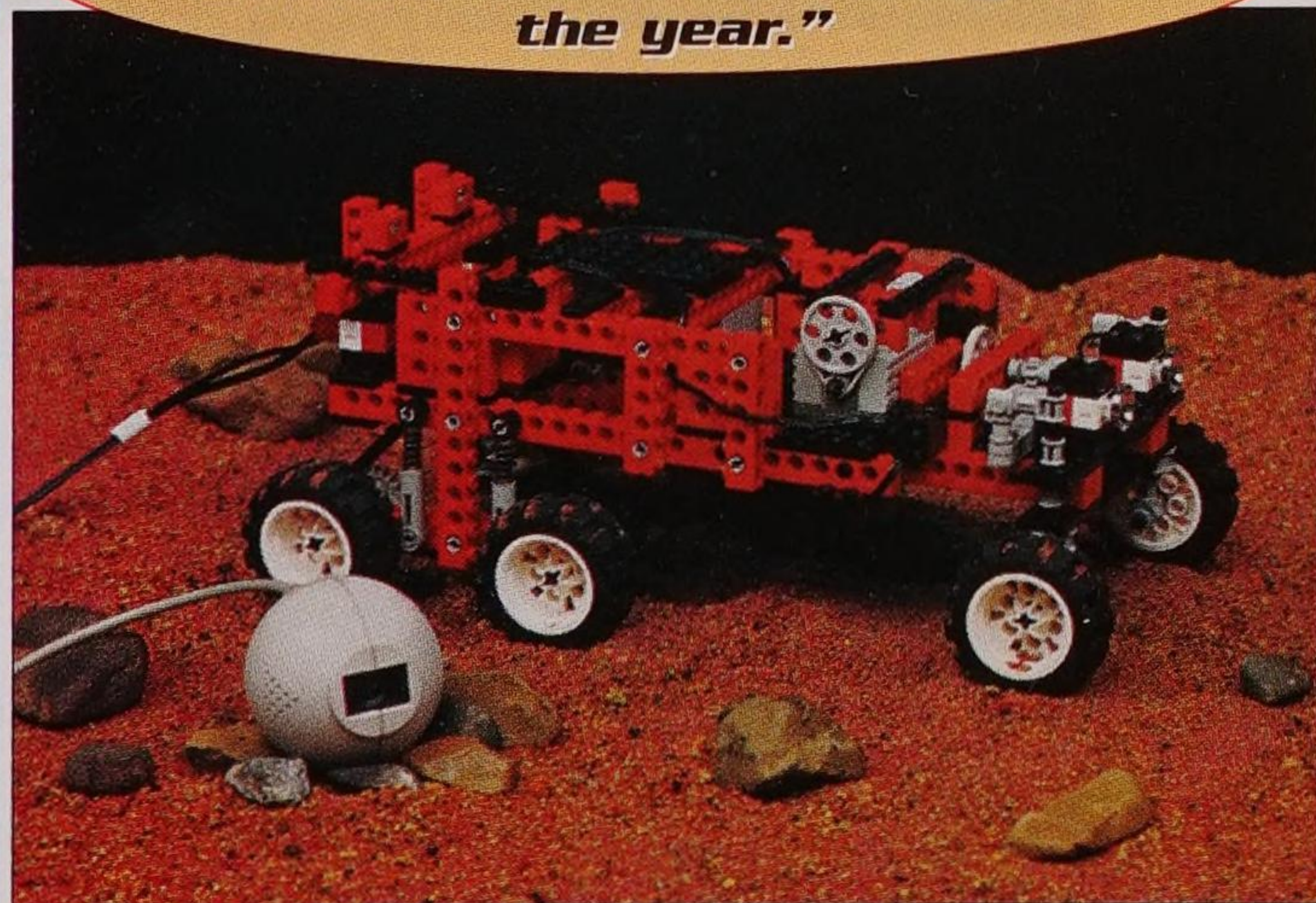
RED ROVER, RED ROVER: MARS SITE PACKAGE

With all the excitement about the NASA Sojourner vehicle's July 4th landing on the Red Planet, imagine: what if your students could build their own Mars Rover and use it to explore a Martian landscape? With Red Rover, they can!

Your students will become NASA scientists and engineers as they:

- Design and build a roving robot from LEGO Dacta Control Lab building elements
- Remotely control their rover with the computer as it roams a student-built Martian terrain. A miniature black and white camera provides a view of the alien world.
- Control other rovers at other sites around the world via internet connection

**"Look for exciting new products to
enhance Red Rover throughout
the year."**



N990046 Red Rover, Red Rover

Mars Site Package—\$379

N970943 LEGO Dacta Control Lab

Starter Pack (MS-DOS/Win 95)—\$675.75

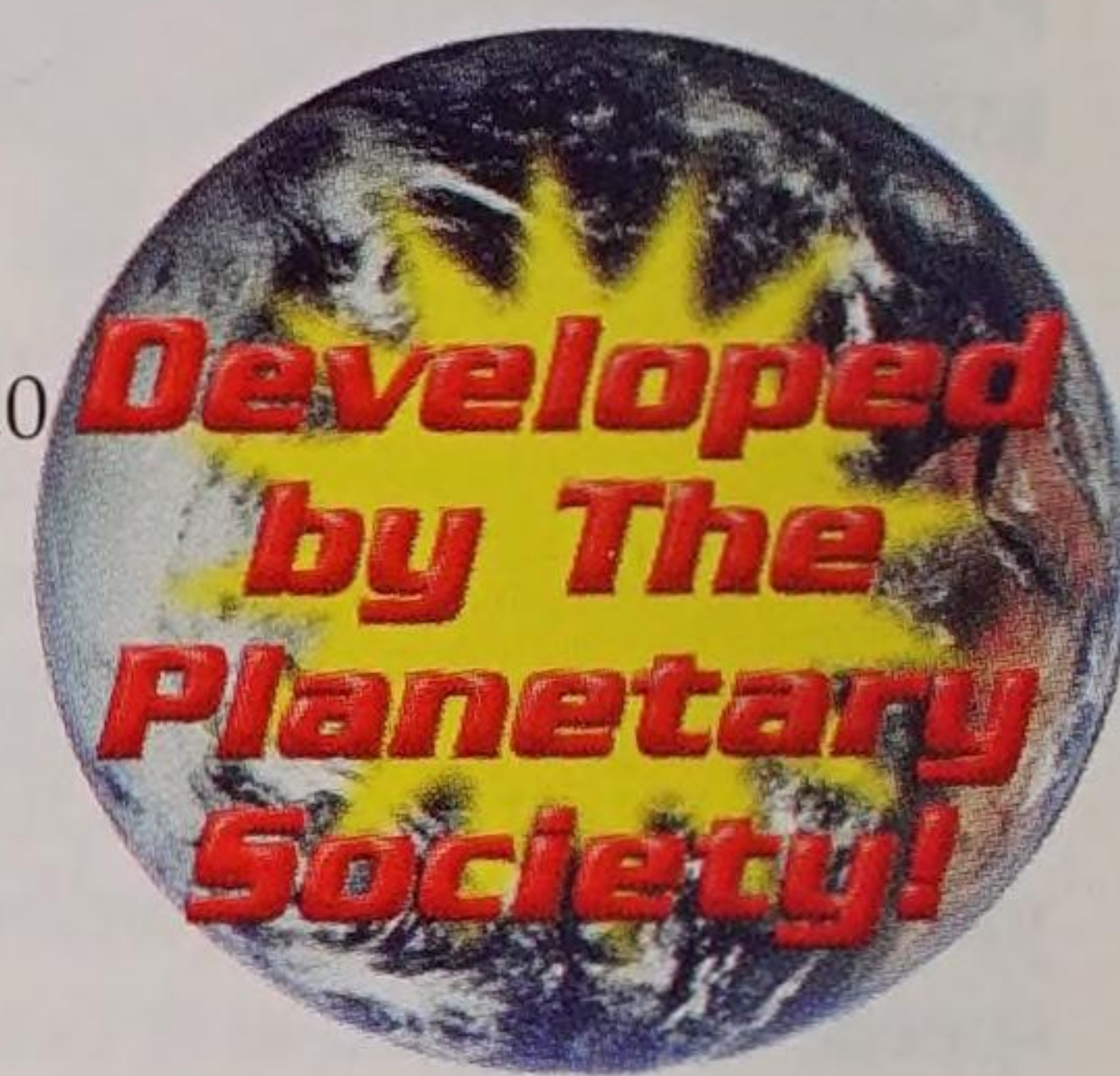
Reach beyond your classroom. . .

The exciting product, in the spirit of the current NASA Mars mission, gives students the opportunity to discover robotics and engineering as they design and build their LEGO rovers. They learn about planetary exploration by building their own Mars terrains in their classrooms. They explore their world from the vantage point of a remote camera—just like the NASA scientists! They reach beyond their own classroom, via internet, and drive rovers built in New York, Los Angeles, Toronto, Sydney, Australia or any of the new sites appearing around the world!

As an option, your site can be explored by other students from around the world as well!

The Mars Site Package includes:

- Red Rover, Red Rover Software version 3.0
- Miniature color camera
- All necessary cables and connections
- 4 LEGO Dacta tires
- Guide to Exploring Mars book
- Teacher Suggestion and Activity Guide
- Software User's Guide
- One year membership to Red Rover, Red Rover Team (includes one-year membership to The Planetary Society)
- Technical Support provided by The Planetary Society
800-969-MARS

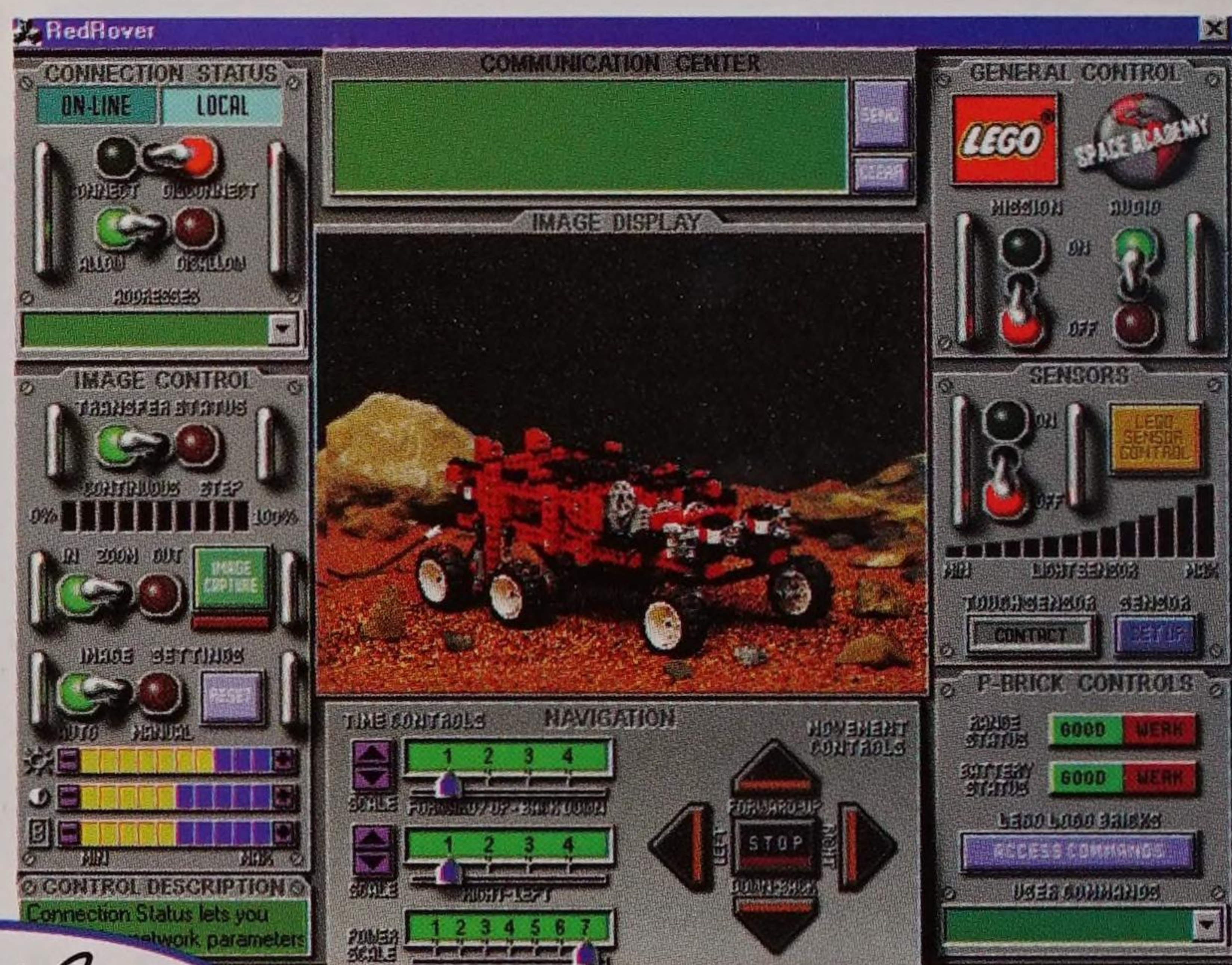


You'll also need:

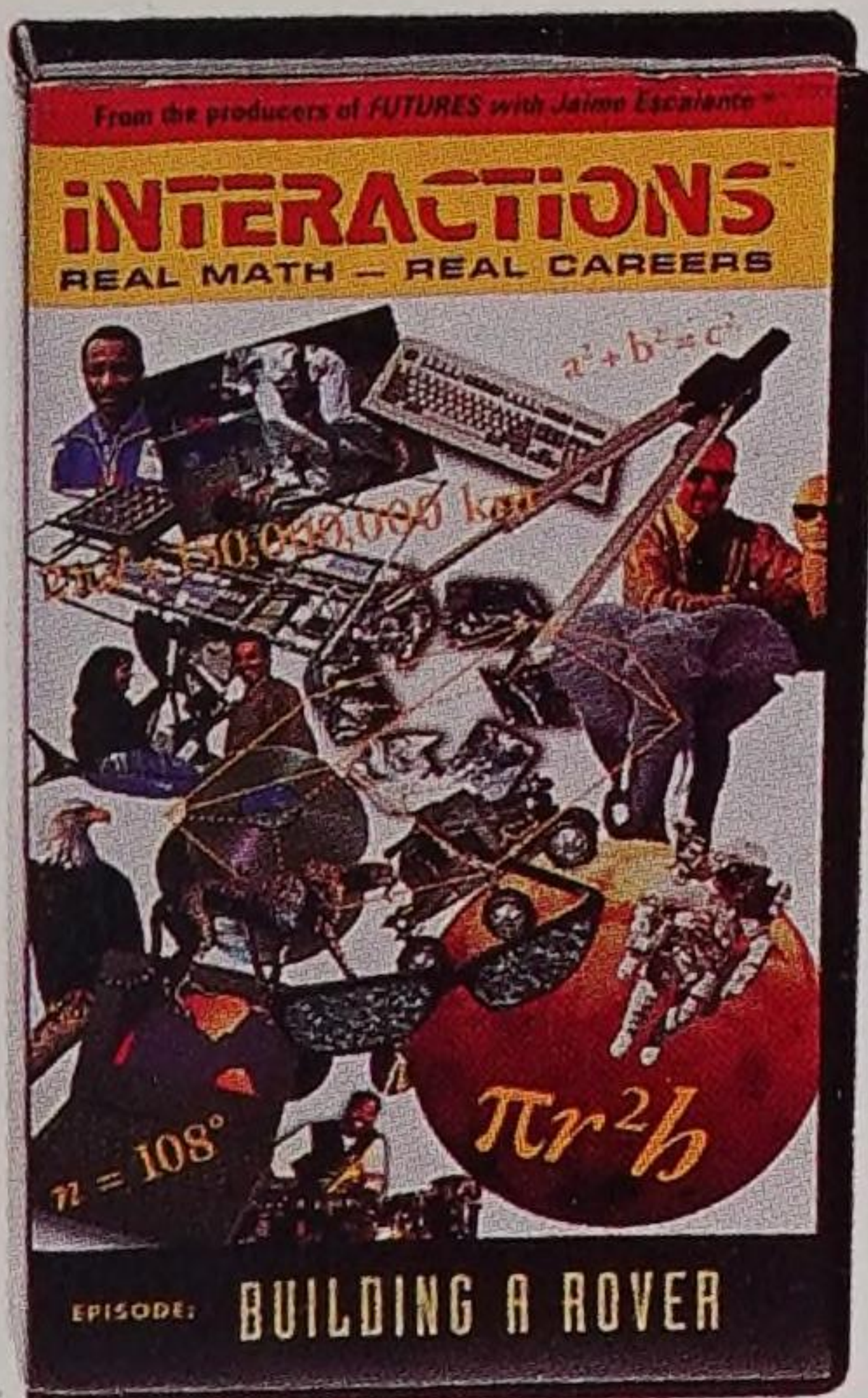
- LEGO Dacta Control Lab Starter Pack (#970943)
- PC Computer (486 or better) with Windows 95
- Internet access (needed to explore other Mars sites)

The Red Rover, Red Rover Project was developed by The Planetary Society in cooperation with Visionary Products, Inc. and the Center for Intelligent Systems at Utah State University. Red Rover, Red Rover is a trademark of The Planetary Society.

The Red Rover Mars Site Package works in conjunction with the LEGO Dacta Control Lab Starter Pack (#970943) which is sold separately. See page 83 for more info on the Control Lab.



**Fax Orders Free
1-888-534-6784**



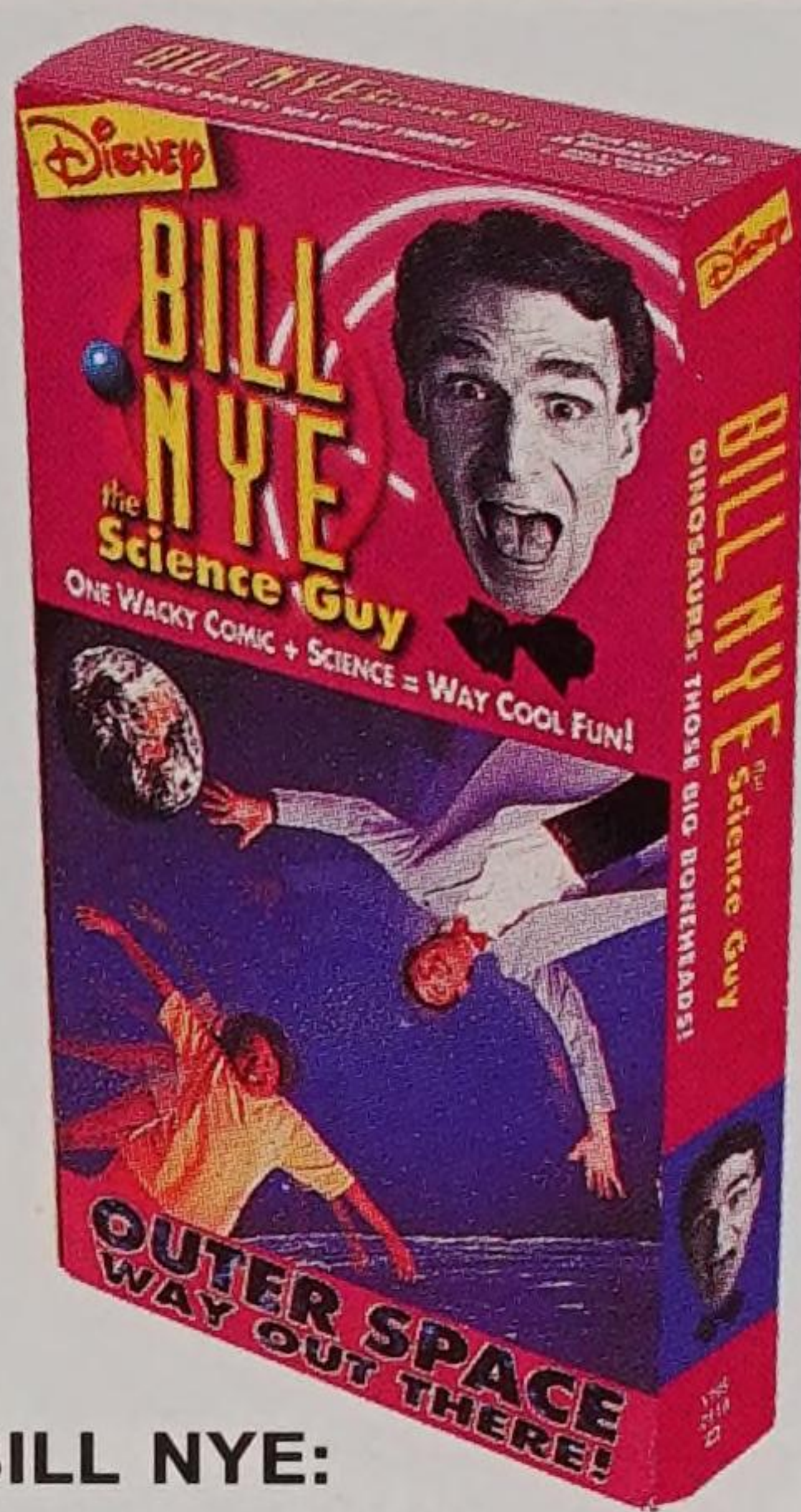
INTER-ACTIONS - BUILDING A ROVER

What kind of vehicle can traverse the surface of the Moon or Mars? It must be one part robot, one part all-terrain vehicle, one part remote-controlled car. It must be able to think for itself, even repair itself! At NASA's testing ground, a team of scientists demonstrate their vehicle, Rocky 2. Building a Rover will spark your students' ingenuity while demonstrating the importance of mathematical concepts like geometry and patterns. Includes a teacher tip sheet with suggested vocabulary and activities.

Time: 15 minutes.

Viewing Level: Middle School - High School

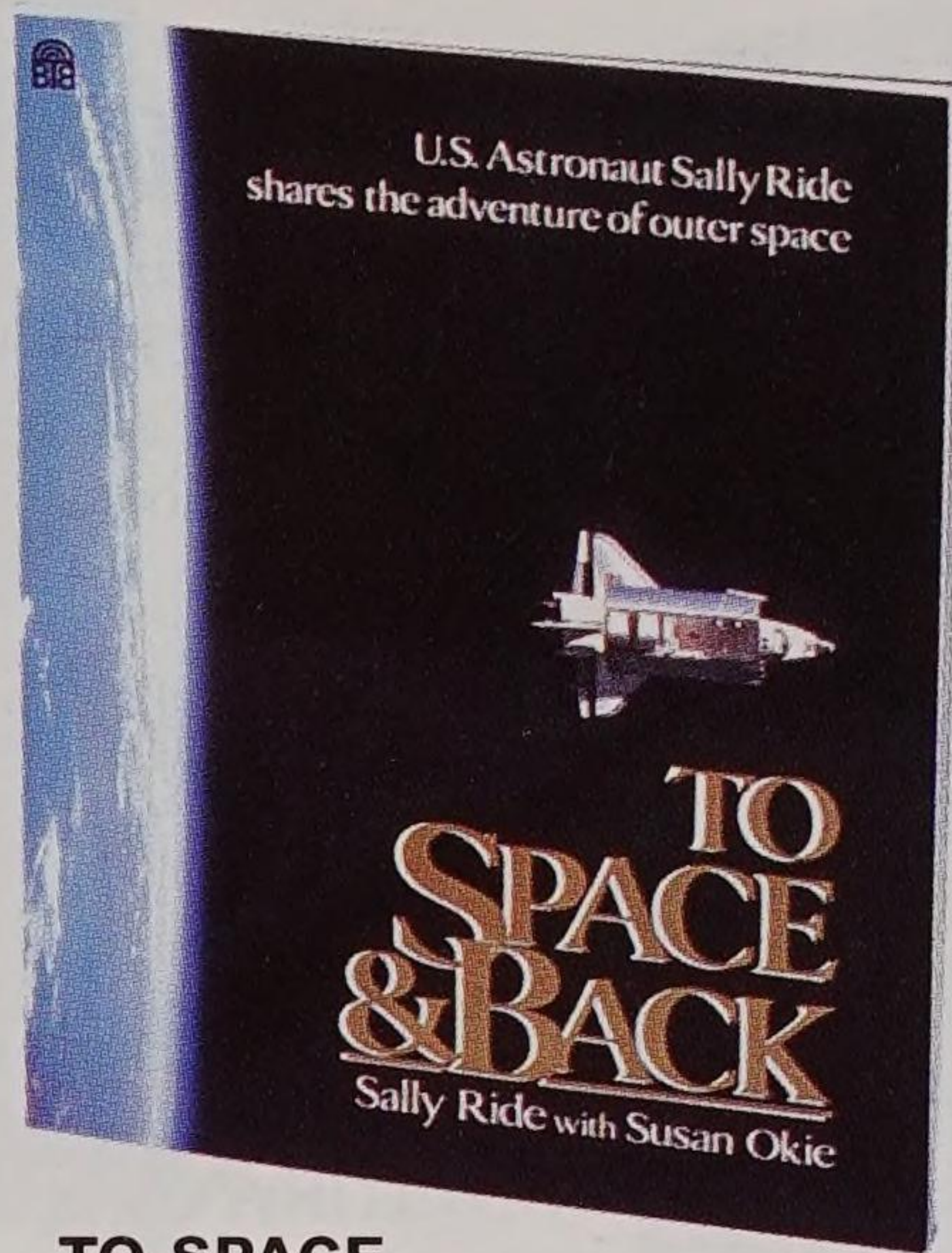
N754461—\$75



BILL NYE: OUTER SPACE —WAY OUT THERE!

Bill Nye, way-cool comedian and scientist, answers questions about Jupiter, other solar systems and gives you a new perspective on just how far it is to the nearest star. The video also includes other fascinating facts, rockin' hot music videos, and fun experiments your students can try. 49 minutes
Viewing Level: Intermediate - Middle School

N754197—\$16



TO SPACE AND BACK

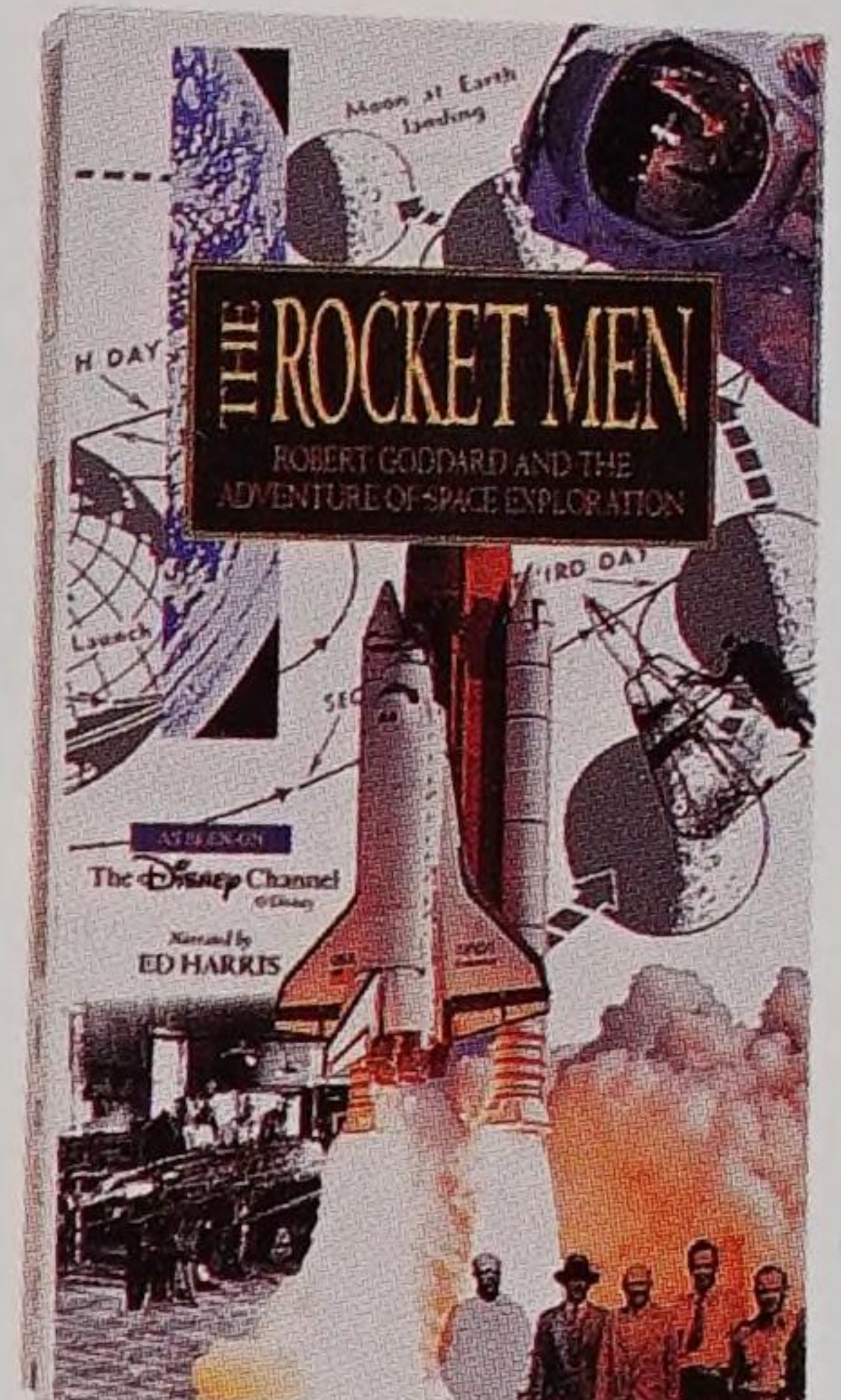
Sally Ride with Susan Okie

Students will obtain a "you-are-there" adventure into space as they accompany astronaut Sally Ride from blast off, through space, and back to landing. This book gives a vivid description of the human side of exploring the adventure of space flight.

Paperback, 96 pages.

Reading Level: Intermediate - Middle School

N752263—\$12.95

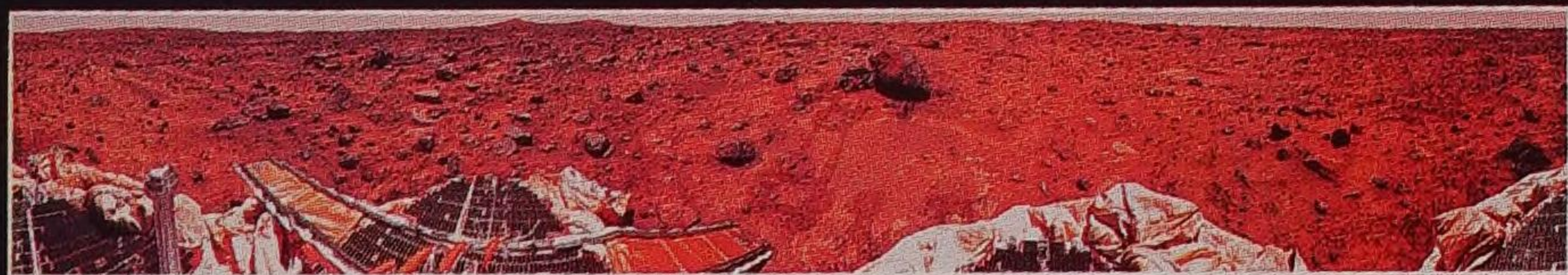


THE ROCKET MEN

Experience the amazing story of Robert Goddard and the inventions that made space exploration possible! This wonderful production tells the story of Robert Goddard and the other scientific visionaries who developed the powerful rockets that play such an important role in our history. It is a story of frustration, perseverance, and brilliance that continues to stir our imagination. Journey to the "Final Frontier" with the men that made its exploration possible. Time: 60 minutes.

Viewing Level: Middle School - High School

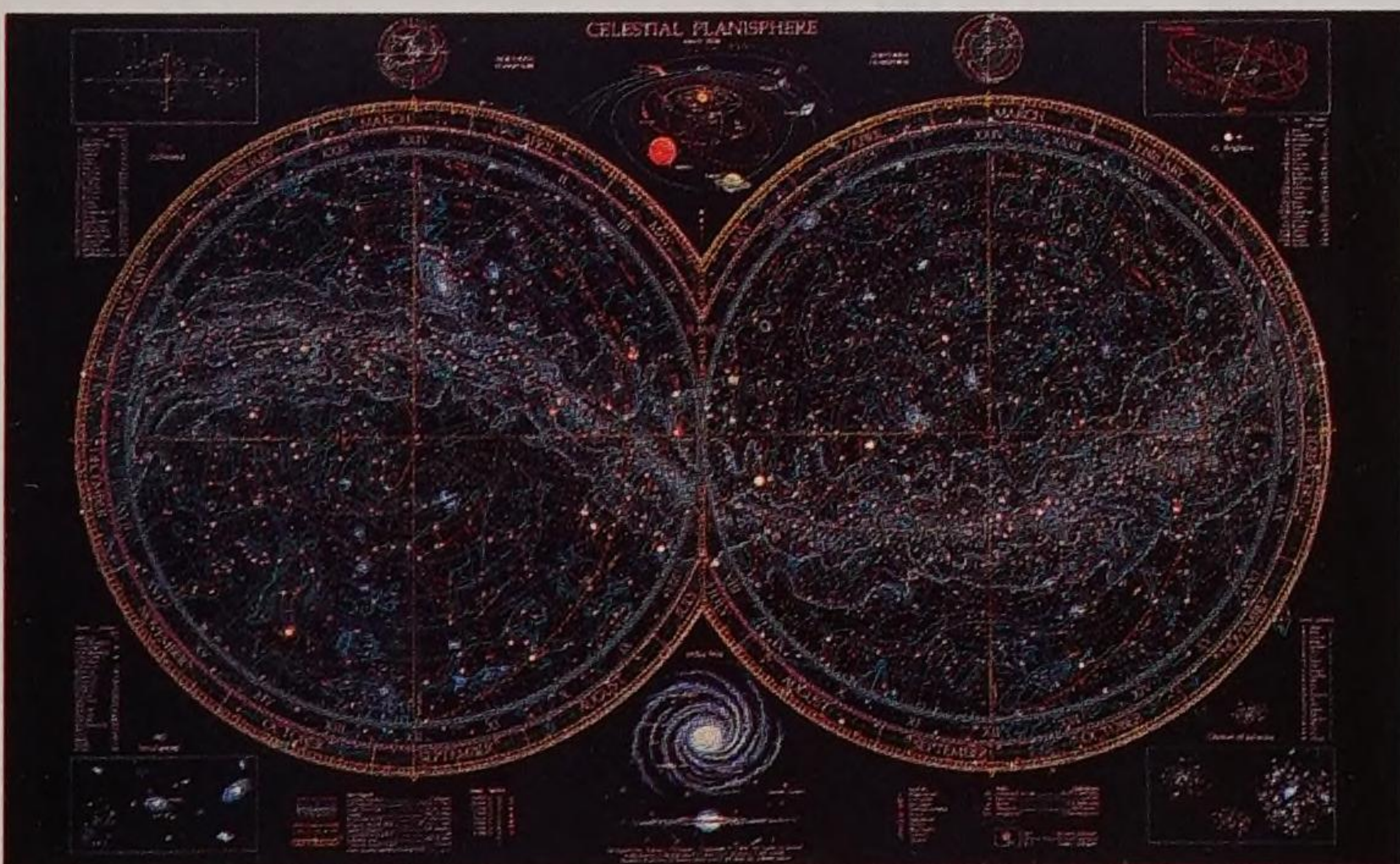
N754094—\$29.95



MARS: A PANORAMIC VISTA

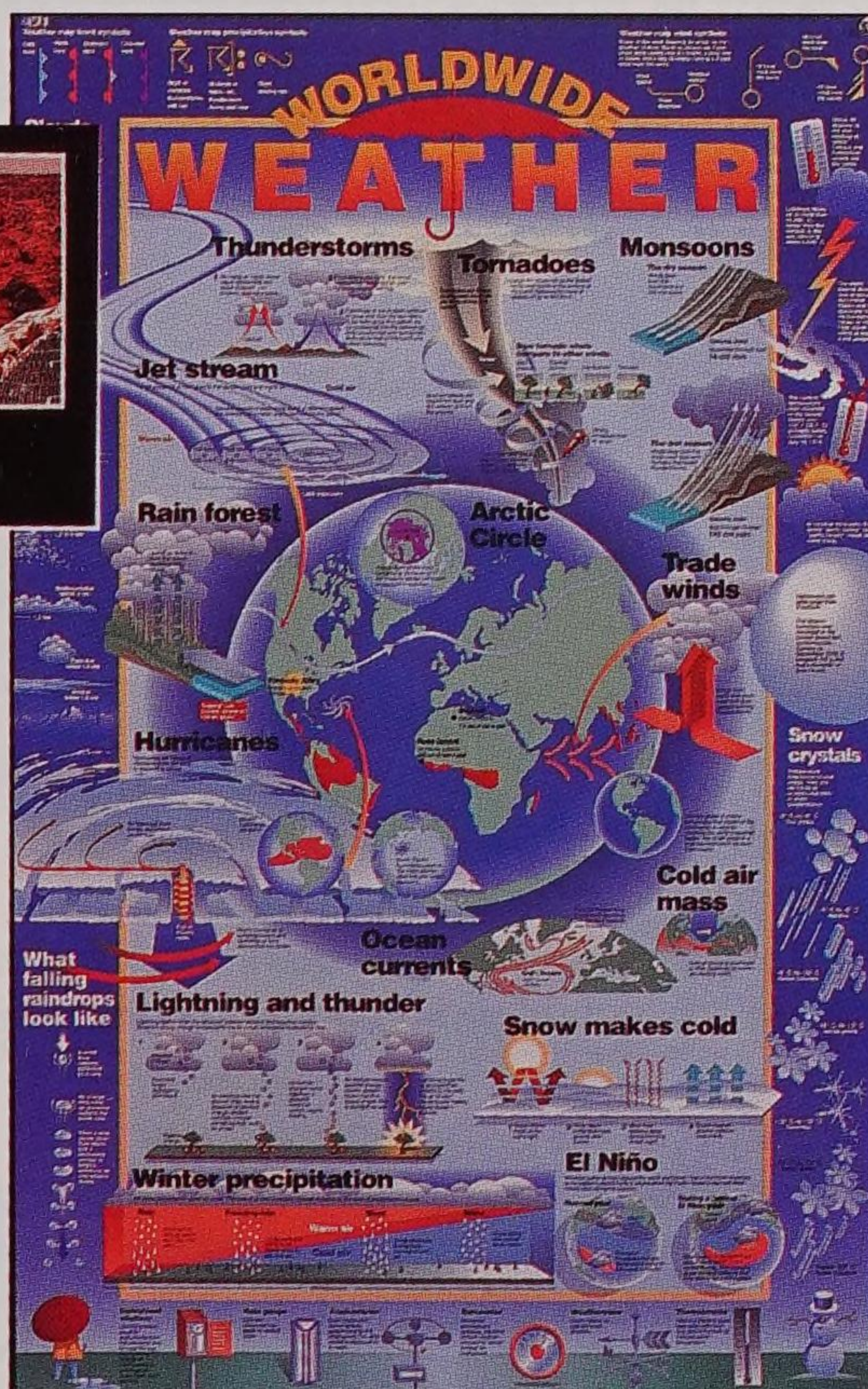
MARS PANORAMIC VIEW POSTER **New!**

N756064—\$7



CELESTIAL PLANISPHERE

N754068 (24"x36")—\$14.95



WORLDWIDE **New!** WEATHER CHART

An informative and colorful laminated weather chart for all ages! Approved by the National Science Teachers Association, this display covers nearly everything regarding the weather: map symbols, storms, clouds, precipitation, El Niño, raindrops, rain forests, and more! This leave-up-all-year poster will be a continual resource for the classroom. On the back is a class experiment which encourages students to weigh a cloud. Size: 24" x 36"

N756078—\$12.95

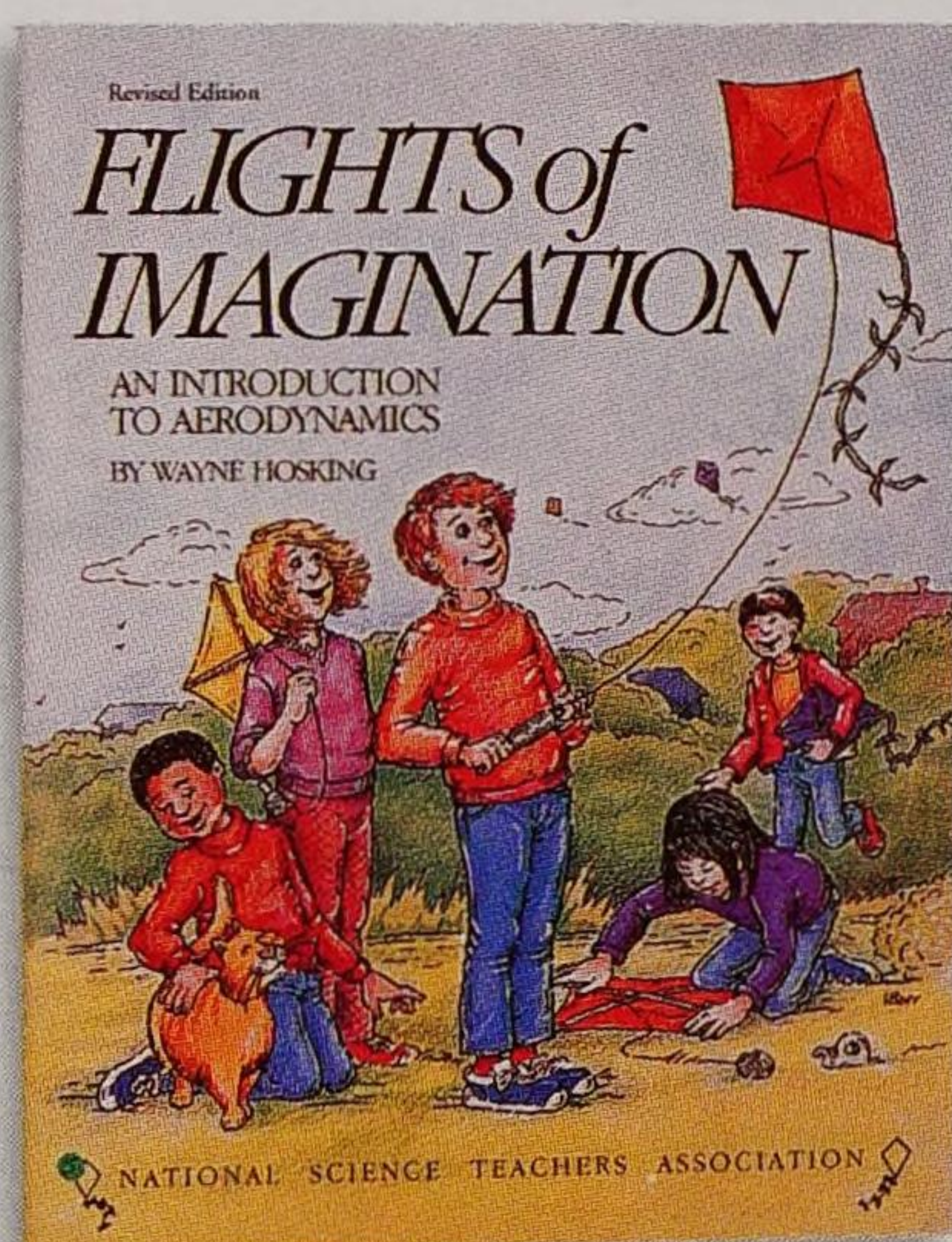
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KITE EXPLORE-A-PAK **PITSCO** **EXCLUSIVE**
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Introduce your entire class to the educational fun of making fantastic kites! The Kite Explore-A-Pak includes everything a class of 25 students needs to complete this high flying activity—colorful tissue, string, glue sticks, teacher guide with student worksheets that can be duplicated to accommodate your class size, and more!

N990007—\$60


FLIGHTS OF IMAGINATION

Wayne Hosking

With the use of kites, gliders, and airfoil projects, this book is an introduction to aerodynamics. Students investigate the fundamentals of flight through 18 hands-on projects. Each activity presents a clearly described principle of aerodynamics and then puts it into action with readily available materials. Paperback, 55 pages.

Reading Level: Intermediate - Middle - High School

N754102—\$10.50

MATH PROJECTS SERIES – BUILDING KITES

Nancy Ann Belsky

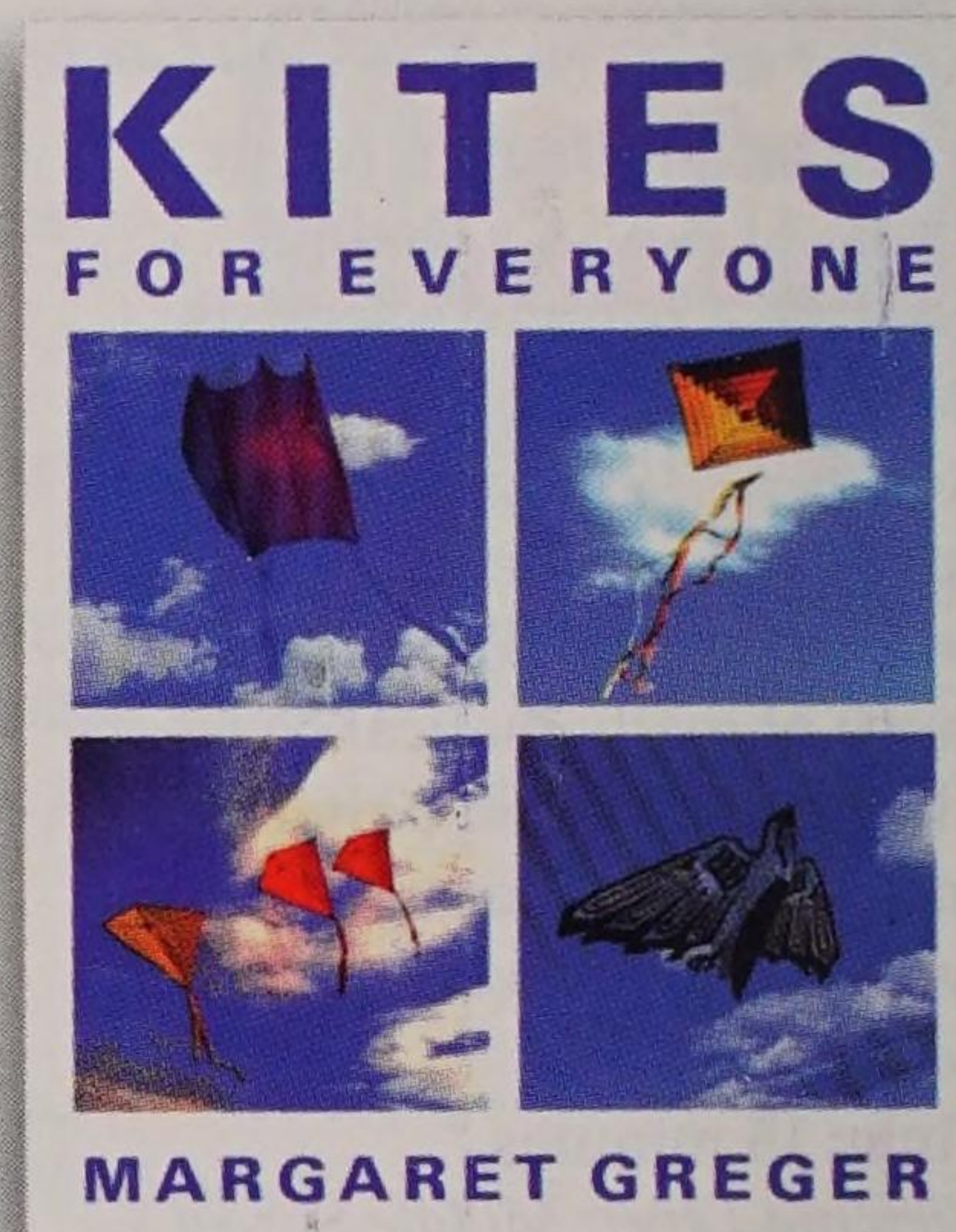
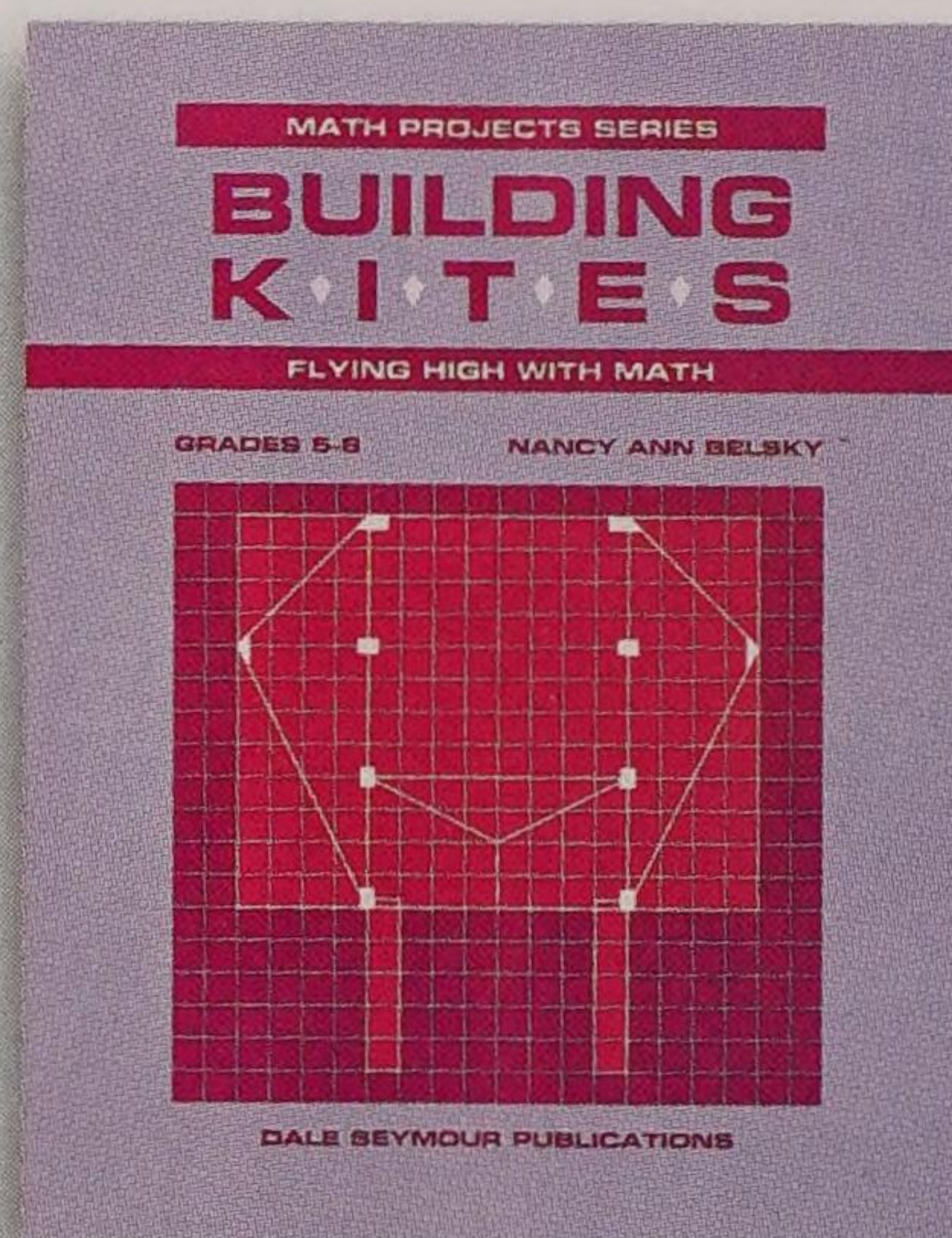
This great activity book integrates mathematics into kite-building. These fun, challenging hands-on kite projects provide opportunity for students to work to:

- Follow and solve problems
- Express their creativity while planning and building usable models
- Apply math as they enlarge patterns, determine measurements, and look for relationships

Paperback, 65 pages.

Reading Level: Intermediate - Middle School

N753173—\$10.95


KITES FOR EVERYONE

Margaret Greger

Great illustrations and activities make this book one every kite lover will have to have! An expert on kites in the classroom and on fabric kite construction, Margaret Greger has combined the information from her 3 previous books on kites into this one manuscript. Paperback, 136 pages.

Reading Level: Intermediate - Middle School

N753187—\$13


DELTA DART

Use this model for grades 4 and older. Pylon mounted paper-covered wings give stable flight. Indoor or outdoor use. Rubber band powered. Wingspan of 11-1/2".

N750187 (35 planes)—\$44.95

N755522 (8 planes)—\$14.75

Fax Orders Free
1-888-534-6784

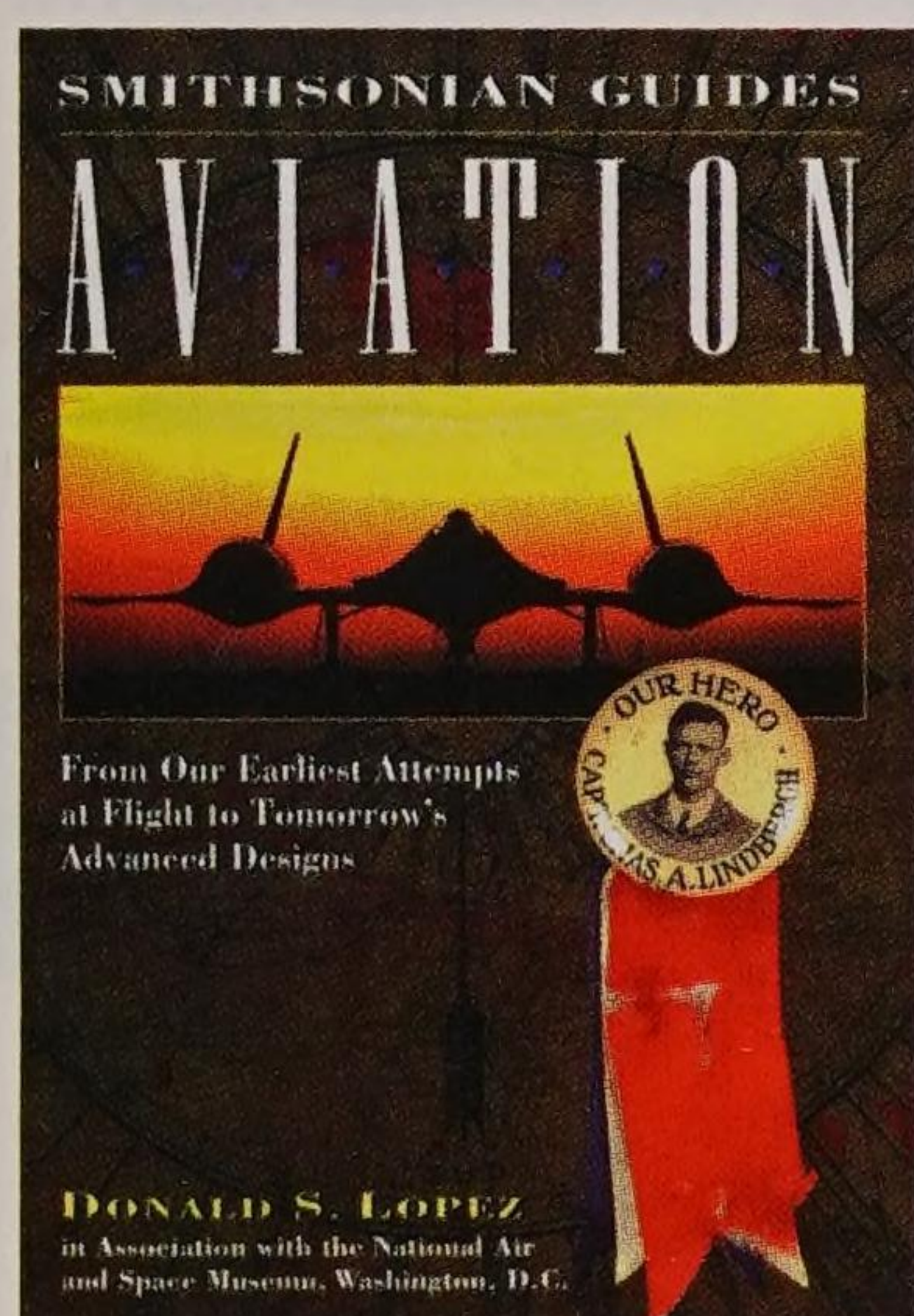
Imagination
is the highest
kite one can
fly.
Bacall



WHITEWINGS COMPETITION CONTEST KIT **New!** WHITEWINGS 5000

With this kit, your after-school club, youth group, or other group of 16 or more could win \$2,500! Get this kit of 30 pre-cut balsa and paper airplanes and enter in the Whitewings Paper Airplanes Contest. Kids can discover the science of flight and use their knowledge to make their glider stay up longer. Kit includes 30 airplanes, 30 student instruction manuals, and 2 instructor's manuals. For contest information, call (425) 885-4599 or check out the web site: www.whitewings.com.

N755564—\$44.00



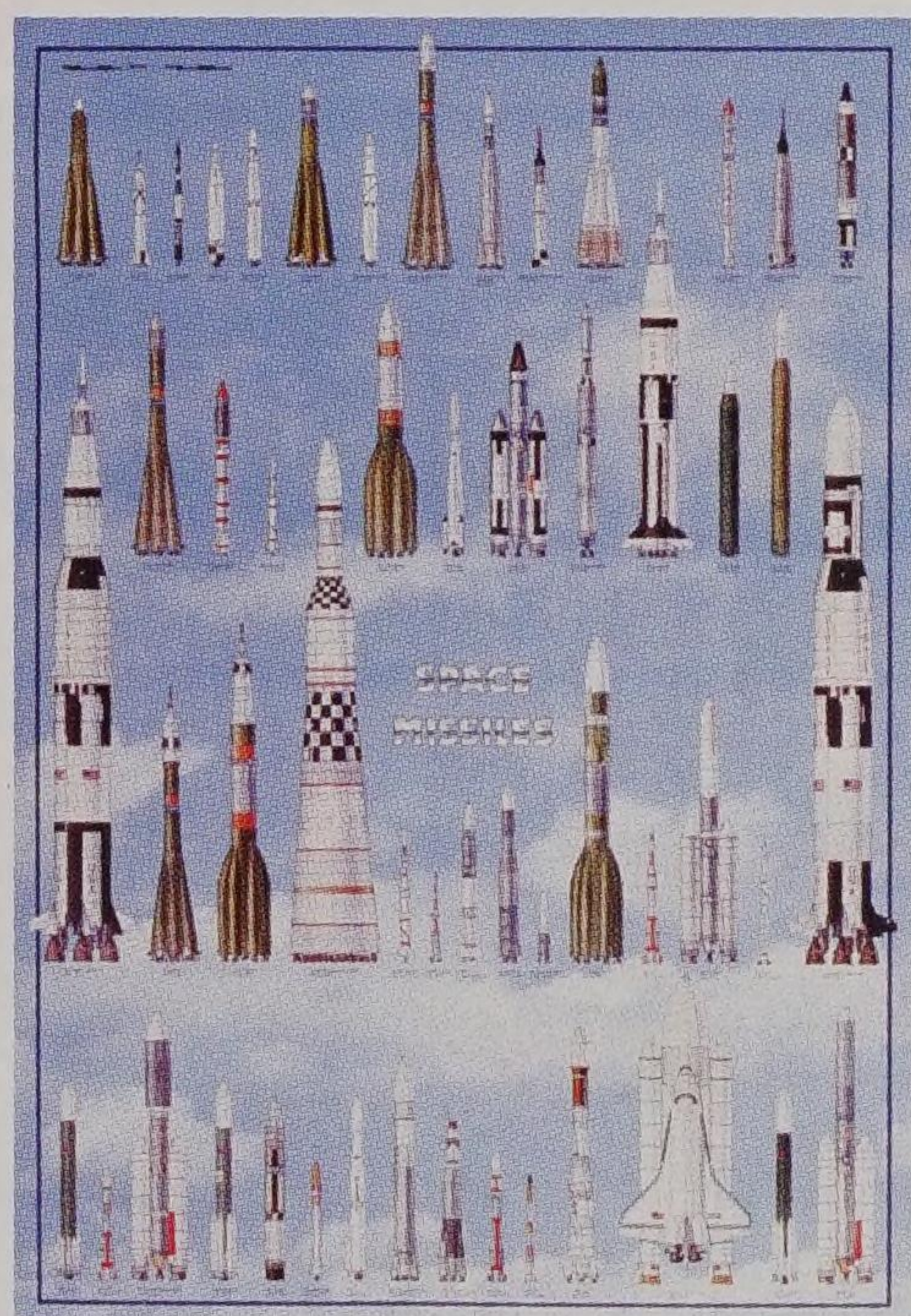
SMITHSONIAN GUIDES-AVIATION

Donald S. Lopez

If you could have only 1 book on aviation, then this is it! This comprehensive, easy-to-use guide gives a great overview of aviation; it's chock full of color photographs and illustrations and well-written text. Includes a full-color fold-out timeline of aviation milestones decade by decade. The 40-page quick access A to Z glossary includes capsule biographies, special terms, and key concepts. Paperback, 256 pages.

Reading Level: Middle School - High School

N753185—\$18



SPACE ROCKETS

752715 (27"x38.5")—\$6.75



Call Us Toll Free
1-800-362-4308



WHITEWINGS PIONEERS OF FLIGHT SERIES

This glider assembly kit has 15 graceful and high-flying models constructed from durable fiber. The kit features 7 racer-style gliders and 8 flying replicas of the most interesting aircraft in history, including the Spirit of St. Louis, P51D Mustang, Clean S.S.T., Tailless Plane, McDonnell Douglas F-15 Eagle, and more. Flight manual and catapult launcher included.

N753168—\$18



STAR GLIDER KIT

This simple balsa glider is easy to build and flies great! Balsa material is die cut, so you just carefully punch it out and glue the pieces together. Glider wingspan is 8" and length is 6". Package includes 35 double kits and instructions.

N754496—\$38

N755520 (8 double kits)—\$15.75

SKY CHALLENGER **New!**

The Sky Challenger is more than just an ordinary star chart. It features six interchangeable rotating panels that help you locate stars, planets and constellations in the night sky any day of the year. A simplified star chart helps beginners learn the basics. Also includes a star clock and special charts that let you invent your own constellations, test you eyes with the stars, and learn about Native American constellations.

N756058—\$8.95





**PRIMARY
SIMPLE MACHINES SET
#779654**

99 DUPLO elements

Young children build fun and simple models like a seesaw, rolling vehicle, hand-operated lift, and a merry-go-round. By playing with and manipulating the models, they experience pulleys, levers, gears, and wheels and axles.

- Designed for use by teams of 2-3 children
- Full-color activity cards with pictorial instructions for 14 models
- Plastic bin for easy clean-up and storage

N779654—\$92.75

**PRIMARY SIMPLE MACHINES
TEACHER GUIDE #209664**

Designed to supplement the Primary Simple Machines Set, this pack includes a 36-page teacher guide. The guide has excellent suggestions for introducing science concepts, hands-on exploration, and thematic activities.

N209664—\$20.50

THEMATIC BUILDER SET #779290

1,213 elements

Children's imagination will run wild with this set of colorful LEGO building elements. It presents limitless thematic opportunities for classroom learning: It's great for free play, or when using the literature-based approach, children can recreate scenes from their favorite books!

Includes: 6 building plates, dozens of small and large wheels, trees, propellers, a crane hook, and much more!

N779290—\$81 LIMITED QUANTITY



LEGO ISLAND CD-ROM

This 3D problem-solving adventure game brings the fun, imaginative worlds created with the LEGO Theme Builder Set to CD-ROM! Your students can explore & customize the island as they assume the identities of LEGO characters. They'll also build their own custom vehicles—race car, water jet, dune buggy, and helicopter—and race them around the island.

The game involves accidentally releasing the Brickster from jail. Students can capture the Brickster and put him where he belongs before he destroys the island brick by LEGO brick!

N755048 Windows 95 CD-ROM—\$39.99



Fax Orders Free
1-888-534-6784

You see things that are and say, "why?" But I dream things that never were and say, "Why not?"
George Bernard Shaw



FUN TIME GEARS SET #779652

32 DUPLO elements

Students explore gears by building 3 models: a hand-operated paper crimper, top and spinner, and a turntable pattern maker. Students can use the paper crimper and pattern maker to make colorful, creative art projects!

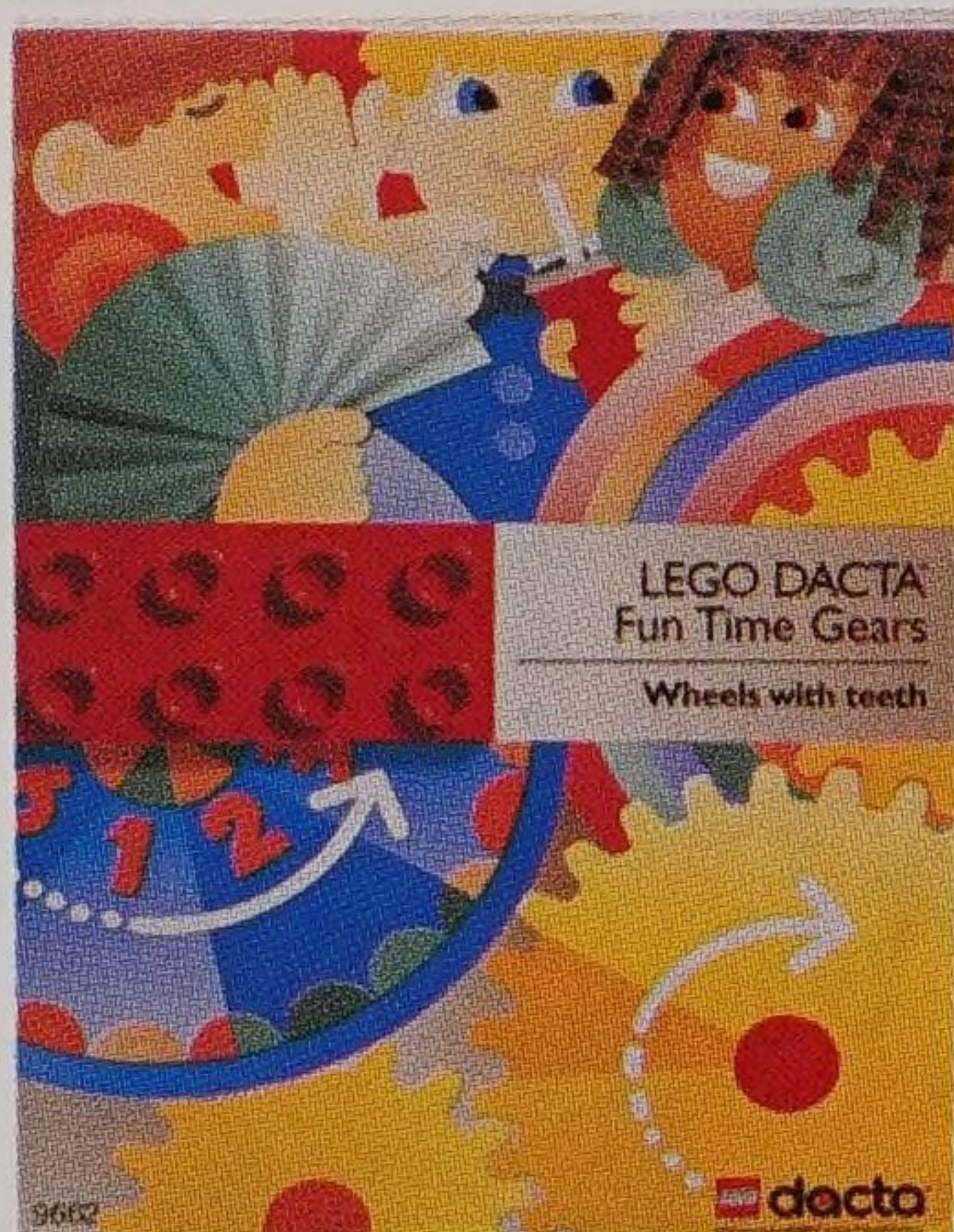
- Designed to be used by a pair of students
- 2 full-color activity cards with 3 projects
- Plastic storage bin

N779652—\$42

FUN TIME GEARS TEACHER GUIDE #779662

An excellent supplement to the Fun Time Gears Set. Contains thematic ideas, discovering gears in everyday machines, and science concepts. Also includes support for the activities, art projects and more. 20 pages.

N779662—\$5.75



FUN TIME GEARS II TEACHER GUIDE #209665

An excellent 20-page idea book designed to supplement the Fun Time Gears II Set. Contains background information about gears and how they are used in the real world.

N209665—\$5.75

FUN TIME GEARS II SET #779655

46 DUPLO elements

A follow-up to the Fun Time Gears set, this new set allows students to progress even further! Fun Time Gears II introduces new key elements, giving a whole new range of models for student exploration. Models include the Drill, Cruncher, Gate and Bike.

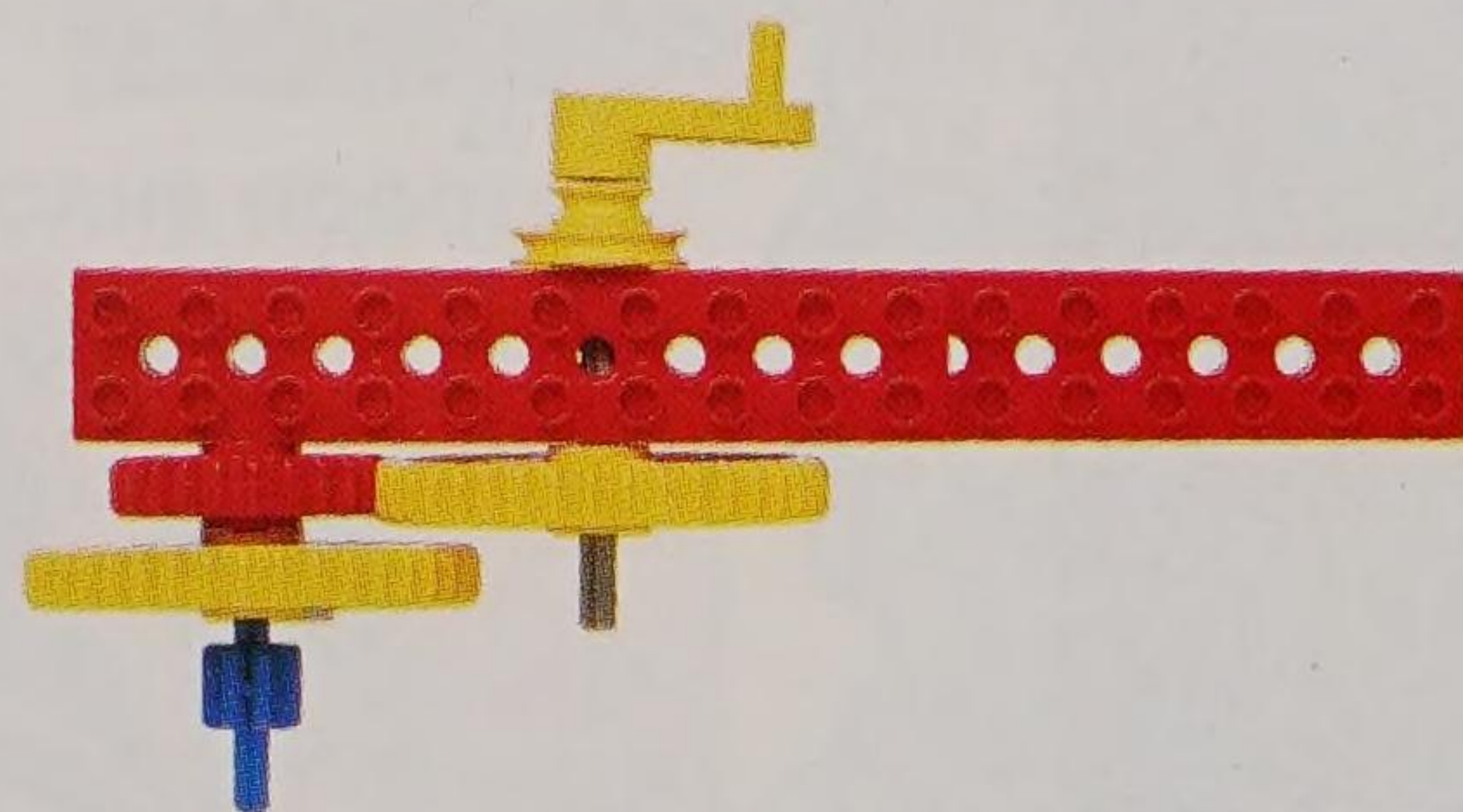
- A pair of students team up with this to discover gear concepts
- 3 full-color laminated building cards
- Plastic storage bin

N779655—\$50.50



Look for tools & supplies for all ages beginning on page 92.

Kids in this catalog
are larger than
they appear.



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**TECHNIC LEVERS MINI SET #779612**

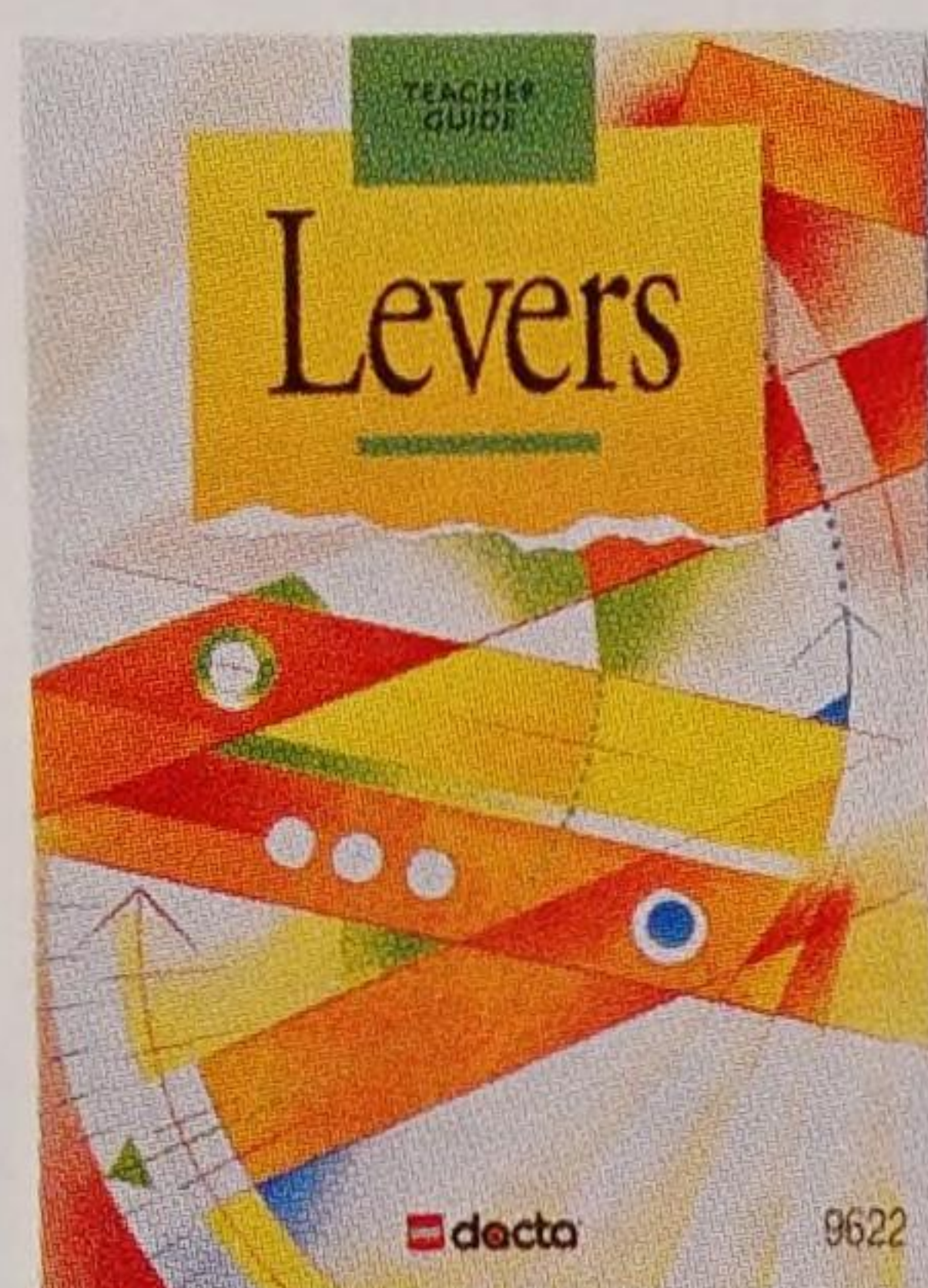
62 elements

This set provides hands-on experience in working with the 3 classes of levers. Students build 2 exciting projects and learn important levers concepts.

- Designed to be used with students working in pairs
- 2 building cards with pictorial instructions
- Sturdy plastic storage case with clear compartmentalized tray
- Clean-up and inventory made simple with pictorial parts list

N779612—\$16.75**EDUCATIONAL CONCEPTS**

- how levers work
- classes of levers
- balance

**LEVERS****TEACHER GUIDE #779622**

This 20-page guide contains 7 lesson plans, introductory lever activities, and problem-solving activities based on lever concepts. Also contains:

- Photographs of real world lever devices
- Background information
- Suggested problem solutions
- Assessment ideas

N779622—\$5.75**LEVERS CLASS PACK #779642****Best Buy!**

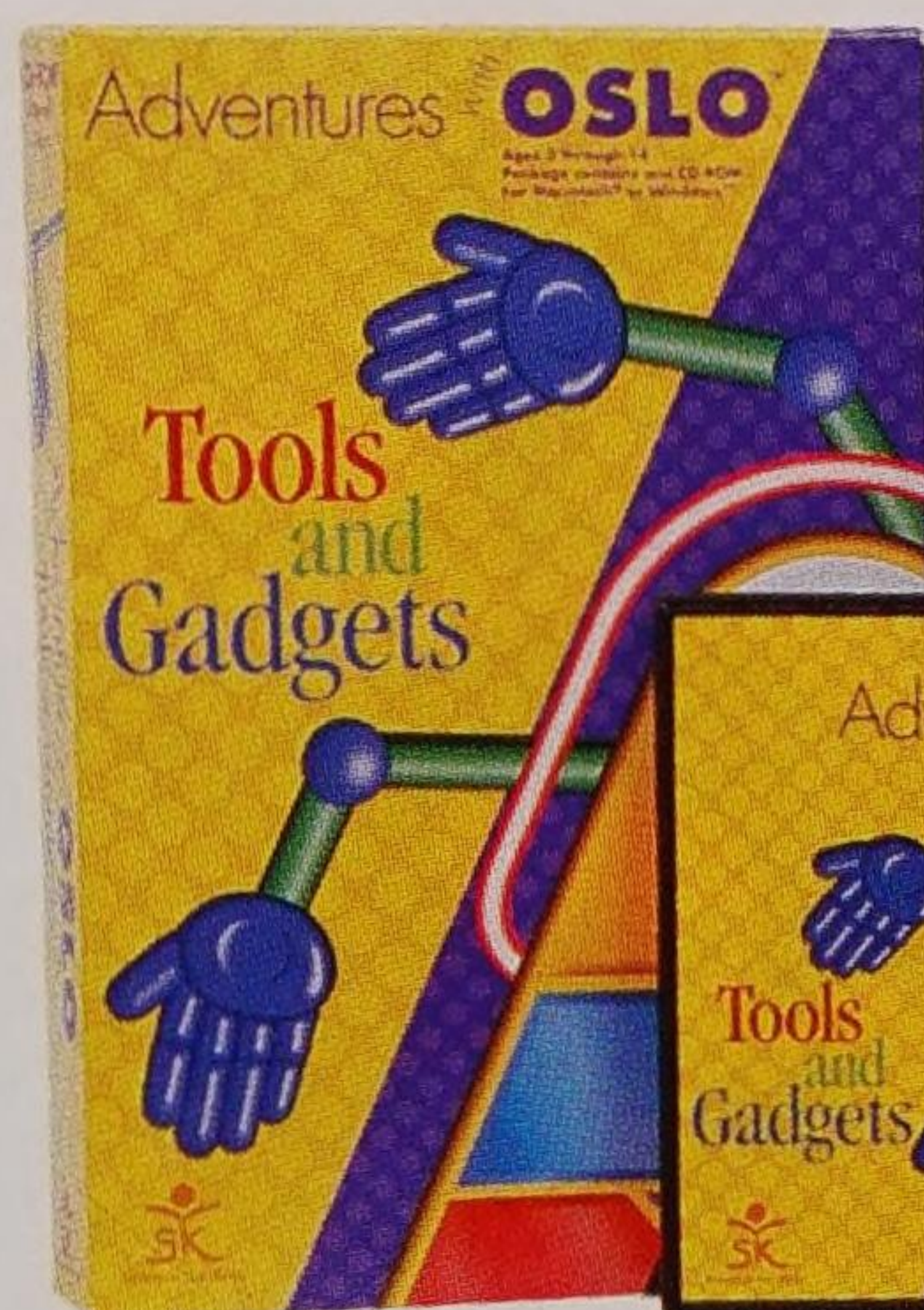
Twenty-four students, working in pairs can experience hands-on learning about levers with this Classroom Pack. The pack includes:

- 12 Levers Sets (#779612) each with its own snap-lid storage case
- 20-page Teacher Guide (#779622)

N779642—\$195**LEVERS TRANSPARENCIES #770972**

This set of 6 transparencies gives you extra leverage when introducing your students to the principles of levers. Students will connect what they learn to the world around them. Includes:

- Summaries of the 3 classes of levers
- 2 examples of each class of lever as used in real world applications

N770972—\$13.25**TOOLS AND GADGETS****CD ROM**

Young students (ages 5-14) will have fun learning about tools, gadgets, and simple machines with this entertaining software. An animated storybook, adventure game, coloring gallery, and a maze arcade are some of the fun and innovative methods Tools and Gadgets uses to teach stu-

dents about simple machines.

Also includes an interactive database that uncovers the 6 classes of simple machines—the inclined plane, screw, pulley, wheel and axle, lever, and wedge.

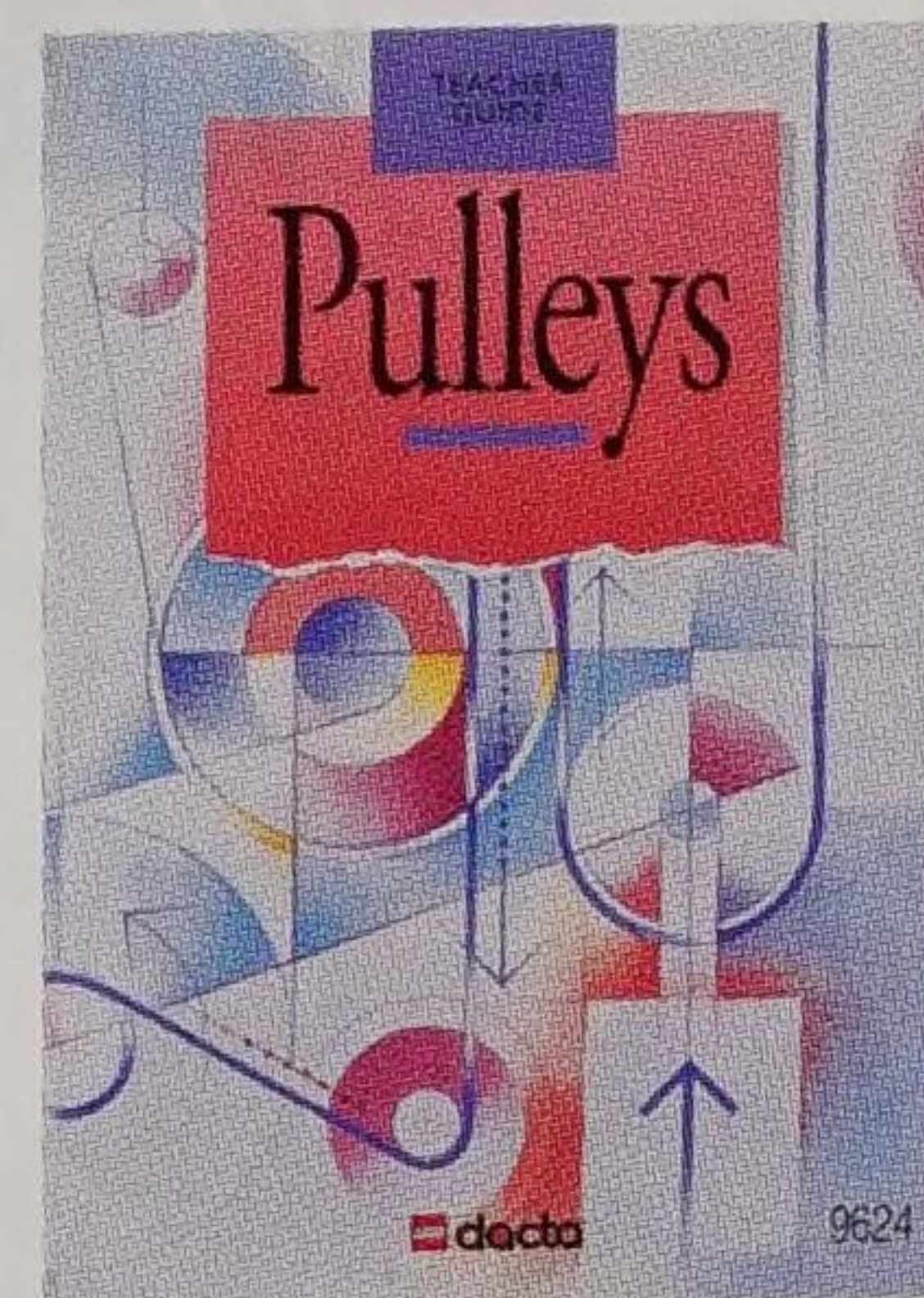
N752615 Macintosh/Windows CD ROM—\$40

Fax Orders Free
1-888-534-6784

LEGO Technic

EDUCATIONAL CONCEPTS

- how pulleys transmit power
- mechanics of pulley systems
- applications of pulleys



PULLEYS TEACHER GUIDE #779624

This 20-page guide contains 12 lesson plans, introductory pulley activities, and problem-solving activities based on pulley concepts. Also contains:

- Photographs of real world pulley devices
- Background information for each subject
- Suggested problem solutions
- Assessment ideas

N779624—\$5.75

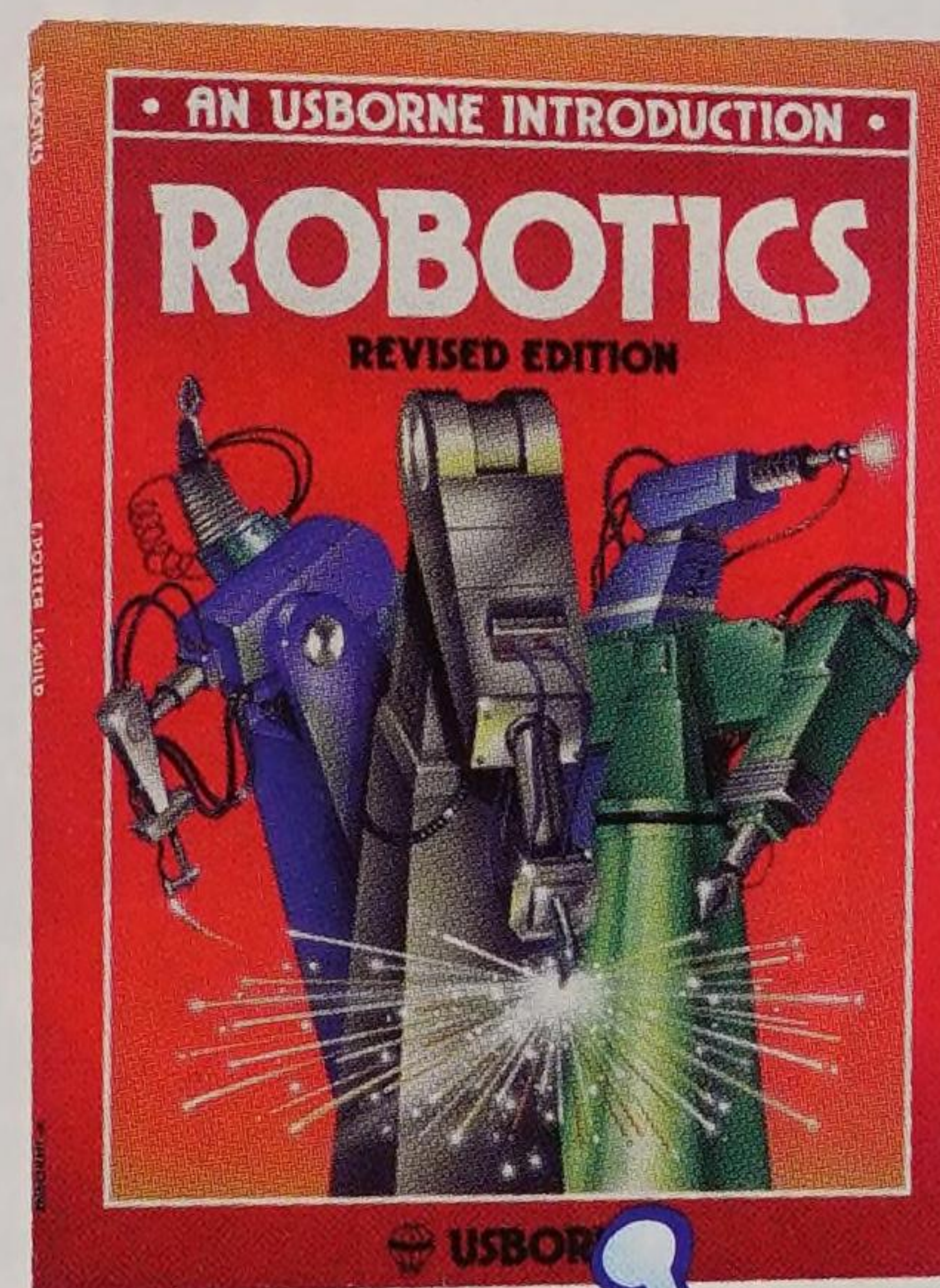
TECHNIC PULLEYS MINI SET #779614

75 elements

Students build and work with models to investigate fixed/movable pulleys and belt drives.

- Designed to be used by students working in pairs
- 2 building cards with step-by-step instructions
- Sturdy plastic storage case with clear compartmentalized tray
- Clean-up and inventory made simple with pictorial parts list

N779614—\$16.75



USBORNE ROBOTICS

Tony Potter & Ivor Guild

This book is chock full of fascinating information about robots and robotics. It's fun and interesting to read with dozens of full-color illustrations and concise text. Covers real world applications for robots, terminology, how they work, how they are controlled in space, robots underwater and much more.

Paperback, 48 pages.

Reading Level: 5th Grade - High School

N750953—\$6.95

Best Buy!

PULLEYS CLASS PACK #779644

This pack delivers the hands-on learning of the Pulleys Set to the entire class! Serves 24 students working in teams of 2.

- 12 Pulleys Sets (#779614)
- 20-page Pulleys Teacher Guide (#779624)
- Individual storage case with each set

N779644—\$195

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EDUCATIONAL CONCEPTS

- how wheels and axles are essential to all type of vehicles
- other applications of wheels and axles
- friction

TECHNIC WHEELS AND AXLES MINI SET #779616

75 elements

This set provides hands-on learning about single and separate axles, steering, rollers, winch handles and friction.

- Designed to be used by students working in pairs
- 2 building cards with pictorial instructions
- Sturdy plastic storage case with clear compartmentalized tray
- Clean-up and inventory made simple with pictorial parts list

N779616—\$16.75



Best Buy!

WHEELS & AXLES CLASS PACK #779646

Hands-on learning for 24 students and teacher support materials are included in this convenient pack.

- 12 Wheels & Axles Sets (#779616)
- 20-page Teacher Guide (#779626)
- Individual storage case with each set

N779646—\$195

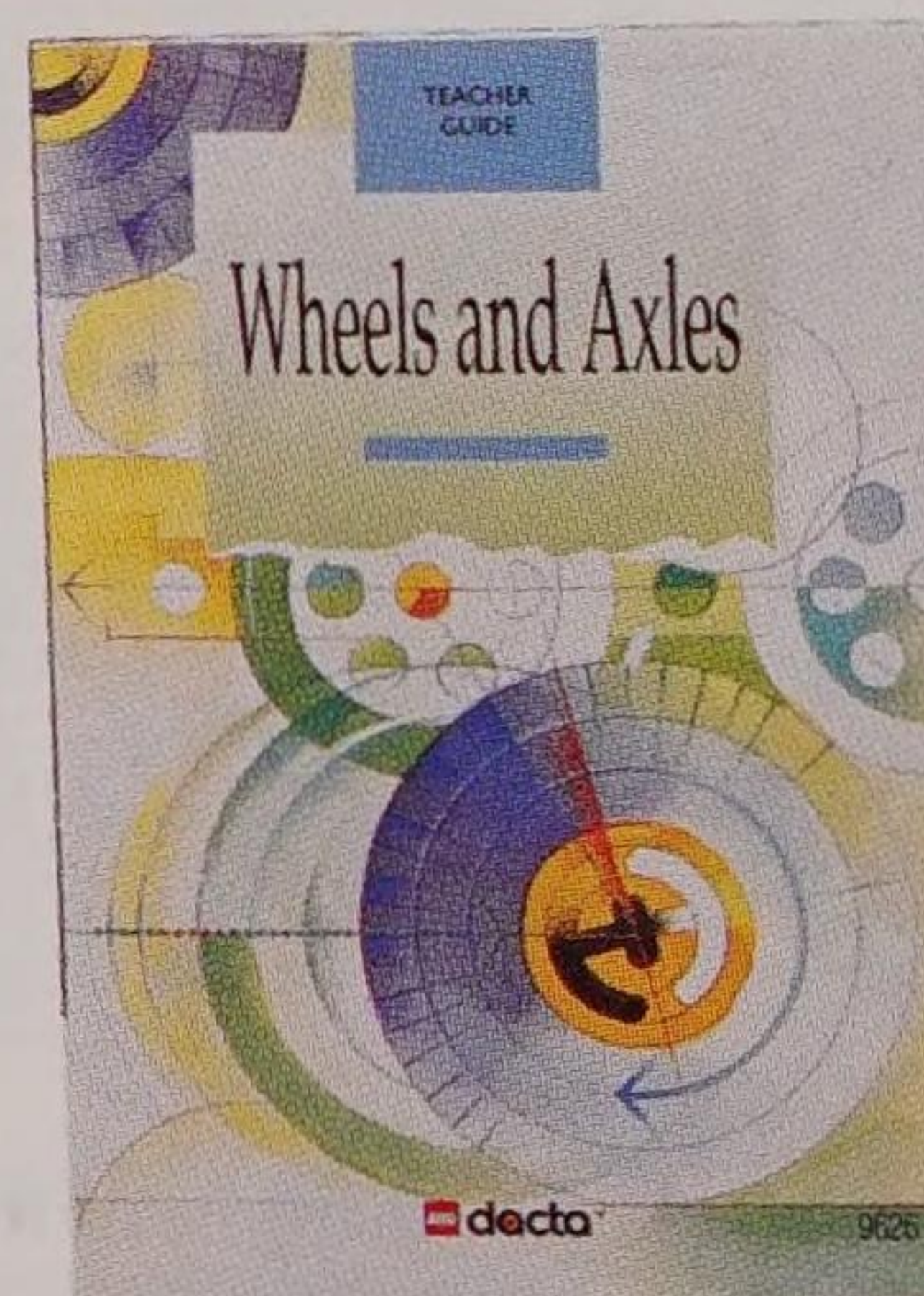


WHEELS & AXLES TRANSPARENCIES #770983

Introduce your students to wheels & axles with this set of 8 transparencies. Visual examples of wheel & axle concepts are provided along with examples of wheel & axle use in everyday objects. Concepts include:

- Sliding vs. rolling
- How wheels reduce friction
- Single axles vs. separate axles
- Wheels as rollers
- Crank handle as a wheel

N770983—\$17.75



WHEELS & AXLES TEACHER GUIDE #779626

This 20-page guide contains 10 lesson plans, introductory activities, and problem-solving activities based on wheel & axle concepts. Also contains:

- Photographs of everyday devices that use wheels and axles
- Suggested problem solutions
- Assessment ideas

N779626—\$5.75

Fax Orders Free
1-888-534-6784



EDUCATIONAL CONCEPTS

- how gears transmit power
- changing power & speed
- gear ratios
- applications of gear systems

Kids in this catalog are larger than they appear.

TECHNIC GEARS MINI SET #779610

67 elements

With the 2 activity cards students build a merry-go-round and a fan. Both models demonstrate how gears can multiply speed. By counting the number of turns and rotations, students can calculate the gear ratios.

- Designed to be used by students working in pairs
- 2 building cards with step-by-step instructions
- Sturdy plastic storage case with clear compartmentalized tray
- Clean-up and inventory made simple with pictorial parts list

N779610—\$16.75

LEGO Technic



Best Buy!

GEARS CLASS PACK #779640

This pack contains enough materials for 24 students (working in pairs) to discover the basic principles of gears. Includes:

- 12 Gear Sets (#779610) each with its own plastic storage case
- 20-page Teacher Guide (#779620)

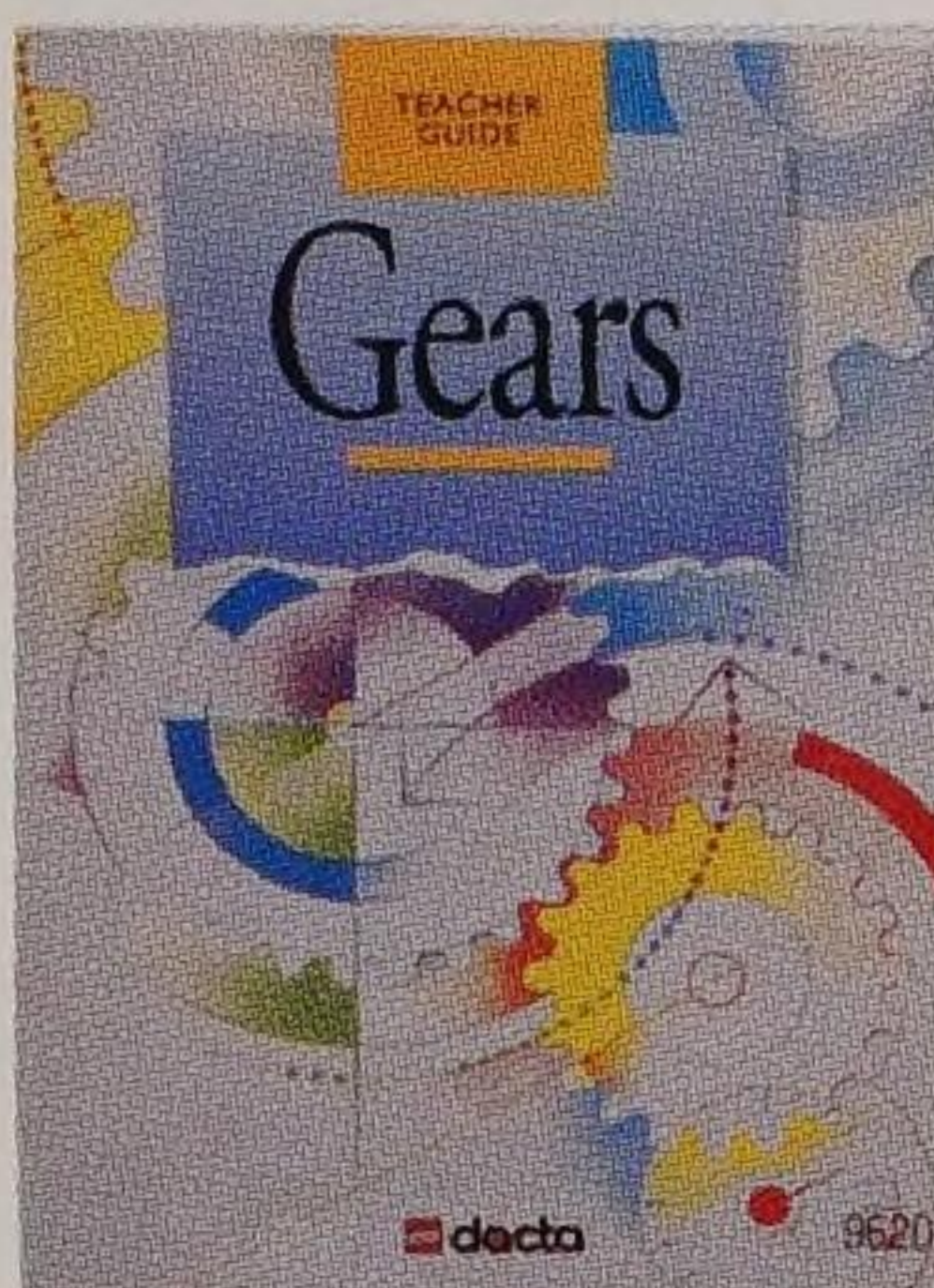
N779640—\$195

GEARS TEACHER GUIDE #779620

This 20-page guide contains 10 lesson plans, introductory lever activities, and problem-solving activities based on gear concepts. Also contains:

- Photographs of real world gear devices
- Background information
- Suggested problem solutions
- Assessment ideas

N779620—\$5.75



GEARS TRANSPARENCIES #770971

The task of presenting gear concepts to your students is made simple with this set of 11 easily-understood transparencies. Basic gear principles are presented then followed up by examples of the principle at work in actual machines. Includes 2 gear challenge transparencies. Concepts:

- Direction of rotation
- Gearing up and down
- Gearing at a right angle
- Mechanical advantage

N770971—\$24.50

MACHINES

Janice VanCleave

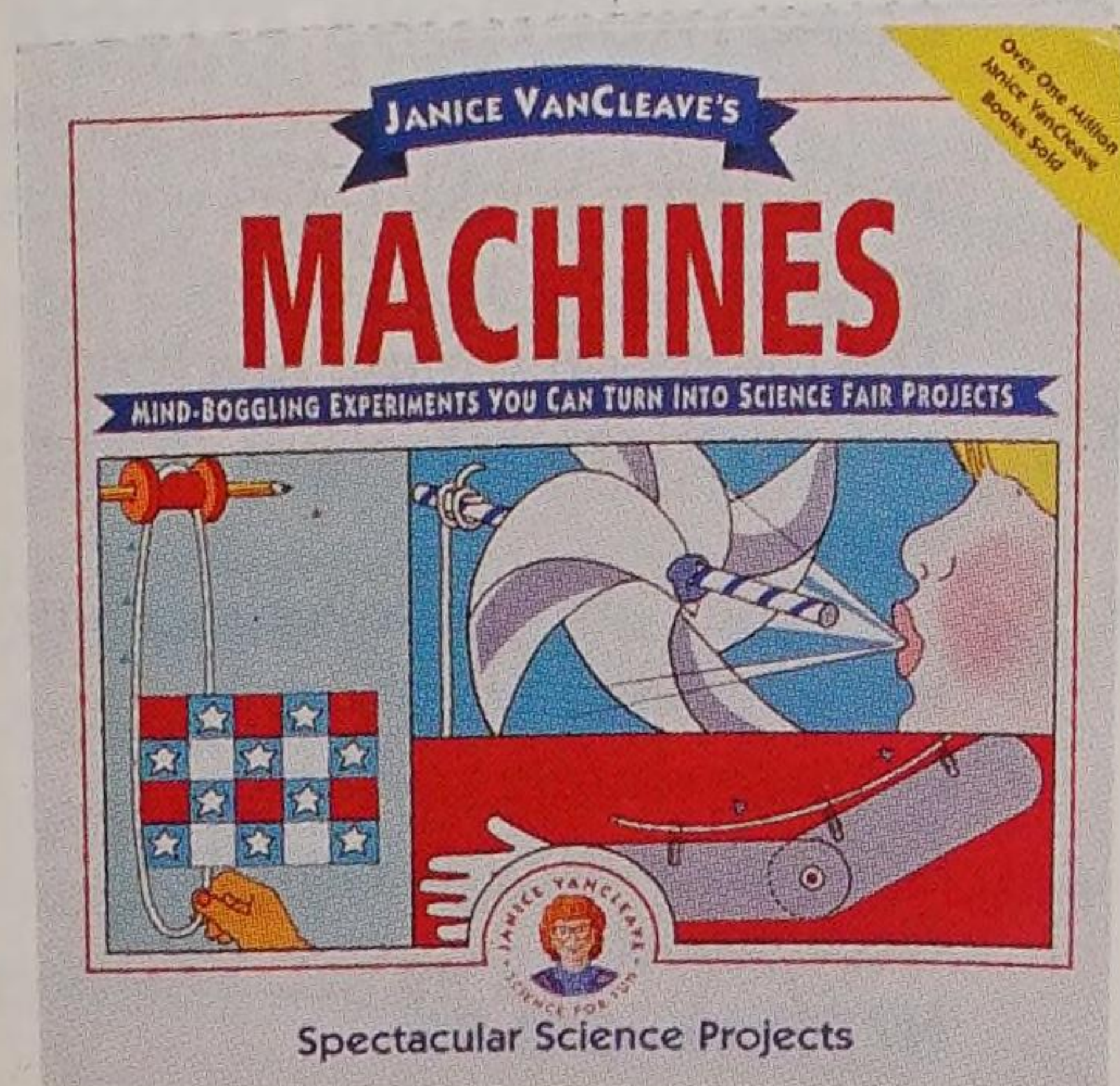
In her own special style, Janice VanCleave brings us this fact filled book about machines.

This is a great introduction of the scientific principles of simple machines in an easy-to-read format. Have this book available for student reading and as a resource for hands-on activities about machines.

Paperback, 87 pages.

Reading Level: Intermediate-Middle School

N715808 Machines—\$10.95



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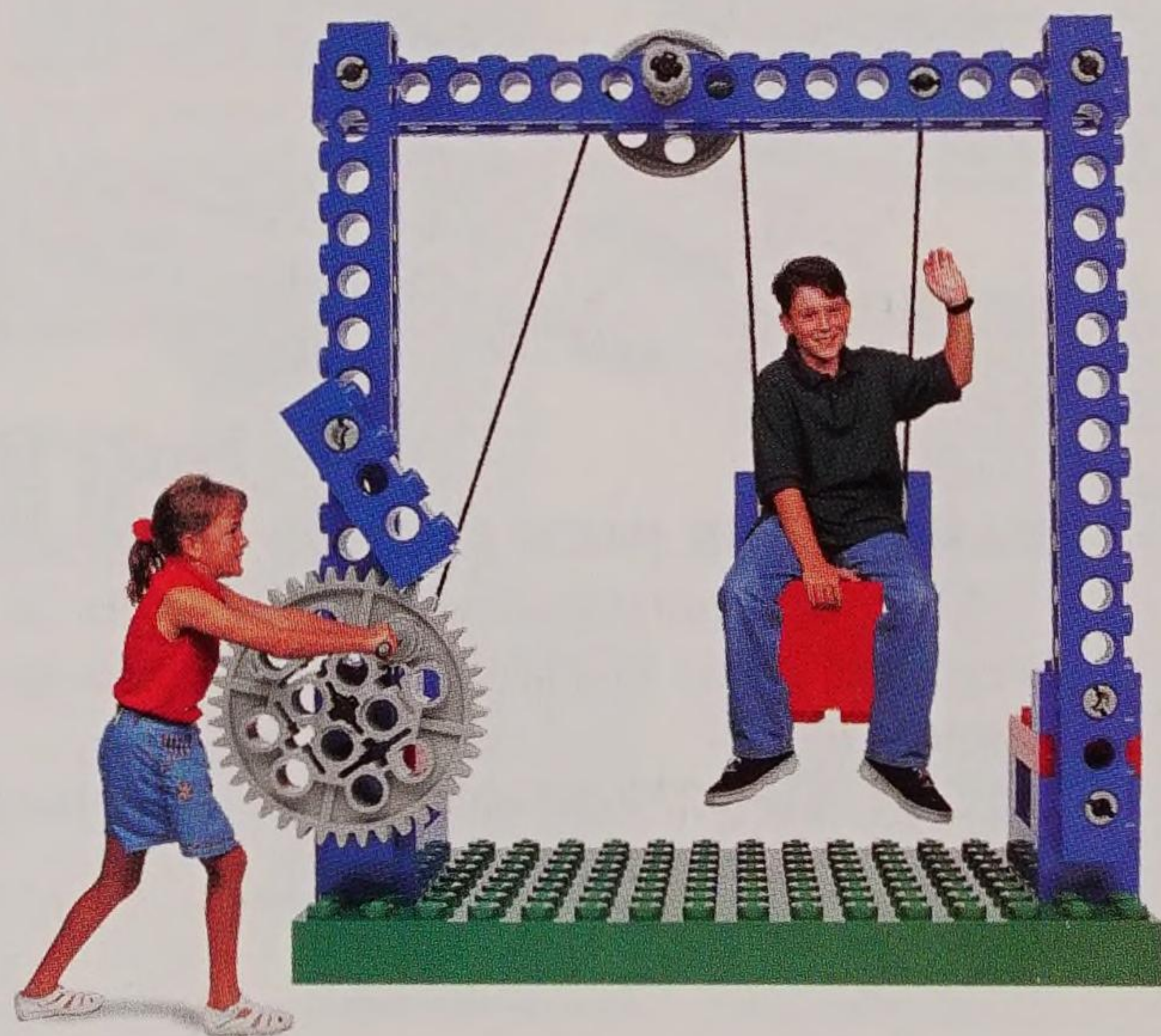
PITSCO **LEGO dacta**
PARTNERS IN INNOVATIVE EDUCATION

**TECHNIC I :****COMPREHENSIVE SIMPLE MACHINES SET #971030****EXCLUSIVE**

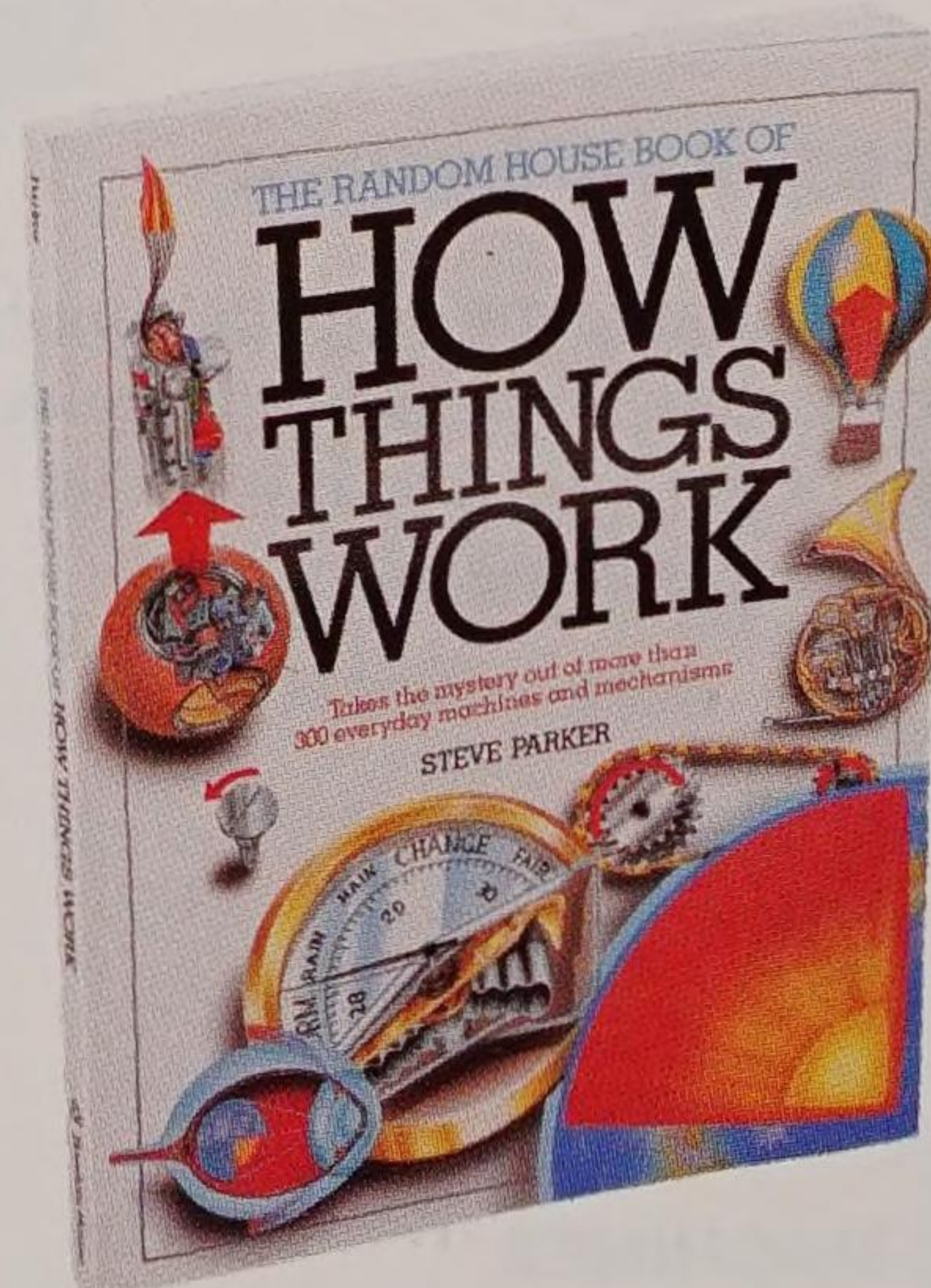
179 elements

This set is intended to expand on the basic simple machines principles introduced by the TECHNIC Mini-Series. By building and manipulating models, students investigate the properties of simple machines.

- Designed to be used by students working in pairs
- Includes gear racks, universal joints, wheels and piston rods
- 20 step-by-step building cards
- Pictorial instructions for 29 models
- Photos of 23 additional challenge models
- Compartmentalized storage tray with clear lid for easy classroom management

N971030—\$67

Kids in this catalog
are larger than
they appear.

**THE RANDOM HOUSE BOOK OF HOW THINGS WORK**

Steve Parker

This comprehensive and highly visual guide takes the mystery out of more than 300 everyday machines and mechanisms. Filled with hundreds of dramatic, clearly labeled cutaways, illustrations, and diagrams that take you right inside each machine and show you how the parts move and what goes where.

Paperback, 157 pages.

Reading Level: Intermediate - High School

N753114—\$18

Fax Orders Free
1-888-534-6784

EDUCATIONAL CONCEPTS

- levers and fulcrums
- mechanical advantage & pulleys
- gears & ratios
- structures
- energy

EXCLUSIVE**TECHNIC I MIDDLE SCHOOL PACK #900024**

This special pack is designed for the modular approach, but also works to jump start a class collection. The pack includes:

- 5 TECHNIC I sets (#971030)
- Free AIMS Foundation book entitled Brick Layers: Creative Engineering with LEGO Constructions (#770918)

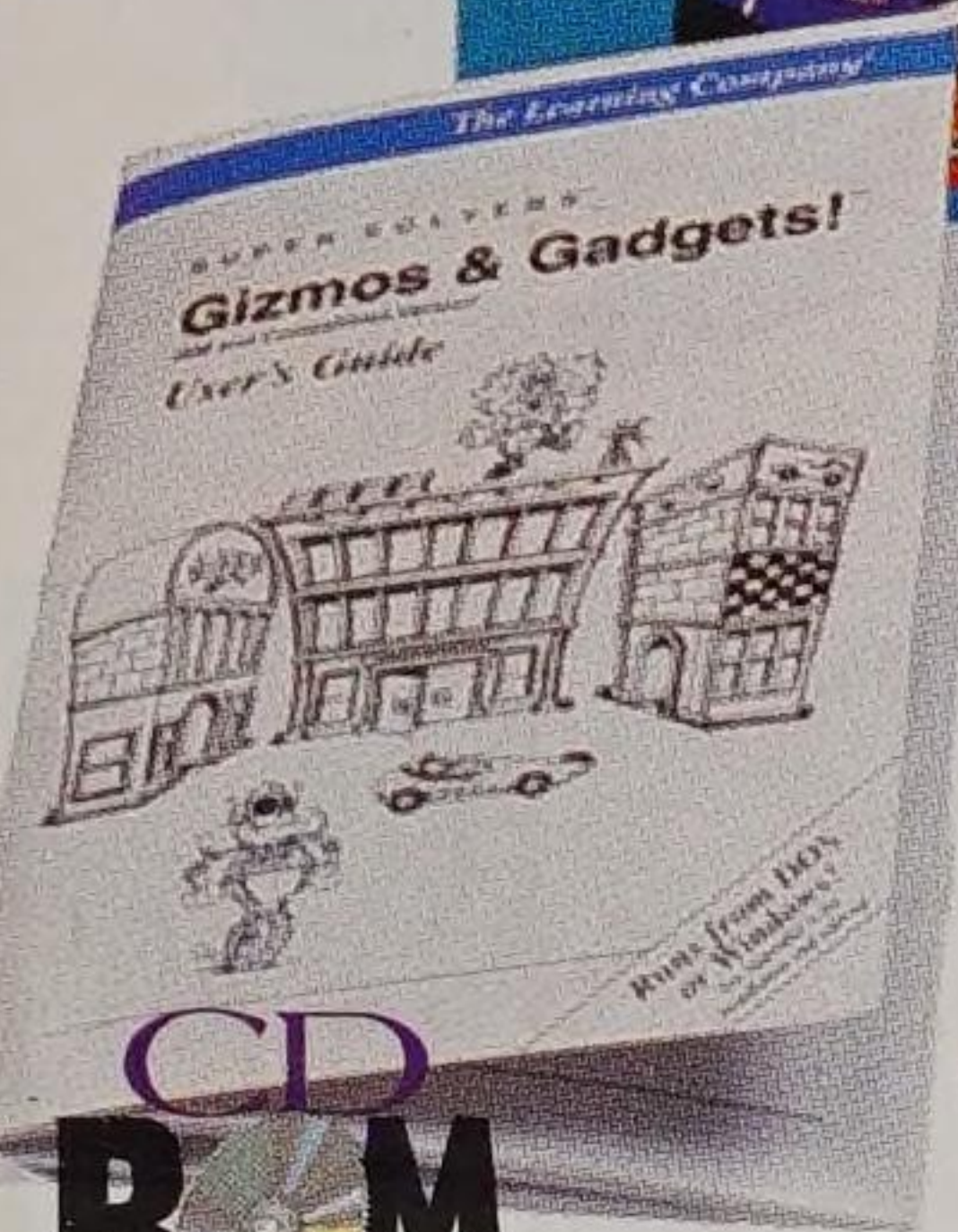
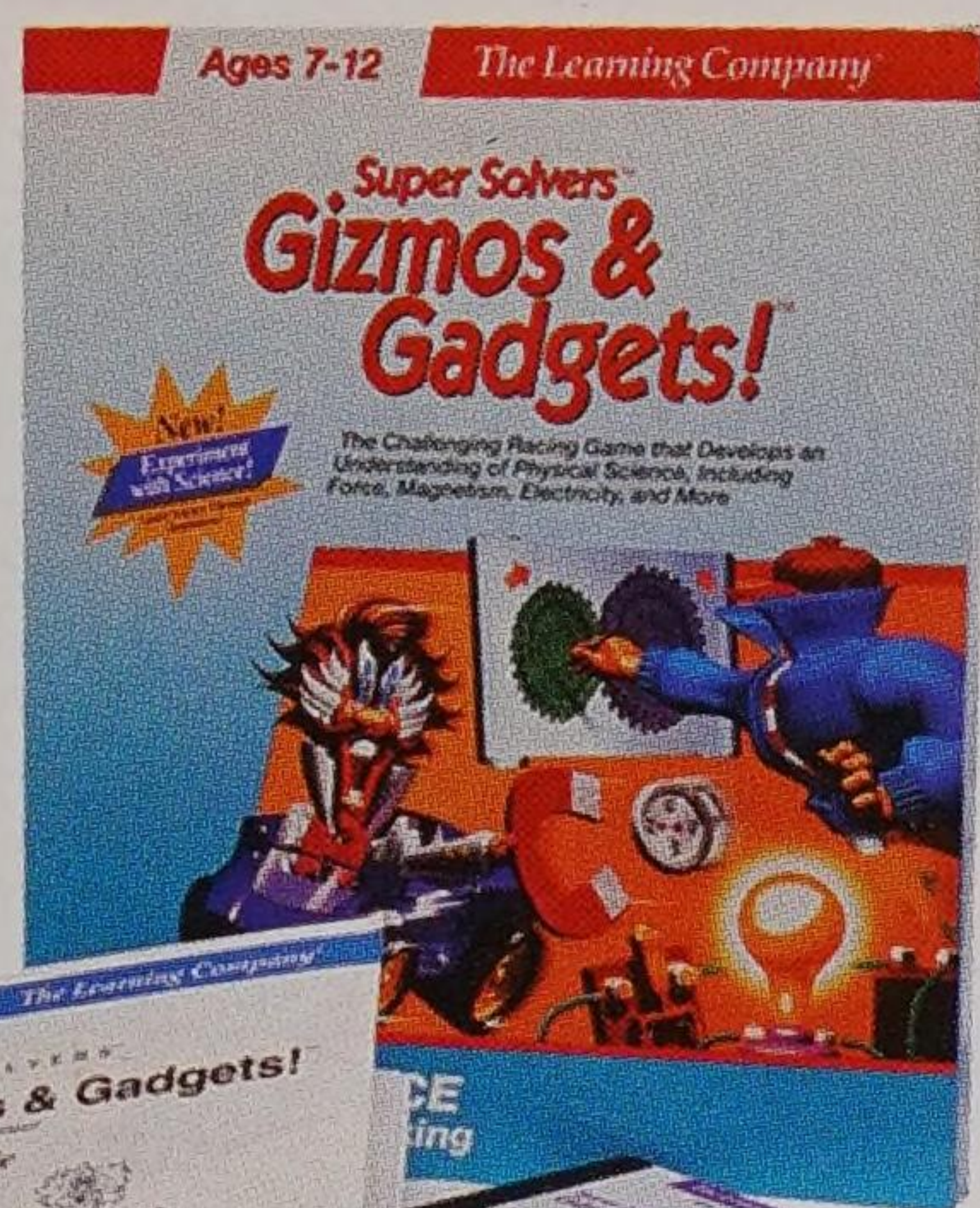
N900024—\$335**LEGO Technic****BRICK LAYERS: CREATIVE ENGINEERING WITH LEGO CONSTRUCTIONS #770918**

This 145-page teacher guide and activity booklet was written specifically for the Technic I set. The hands-on simple machines activities integrate math and science.

They also discover mechanical engineering concepts through simple machines.

Reading Level: Intermediate - High School

N770918—\$21.75



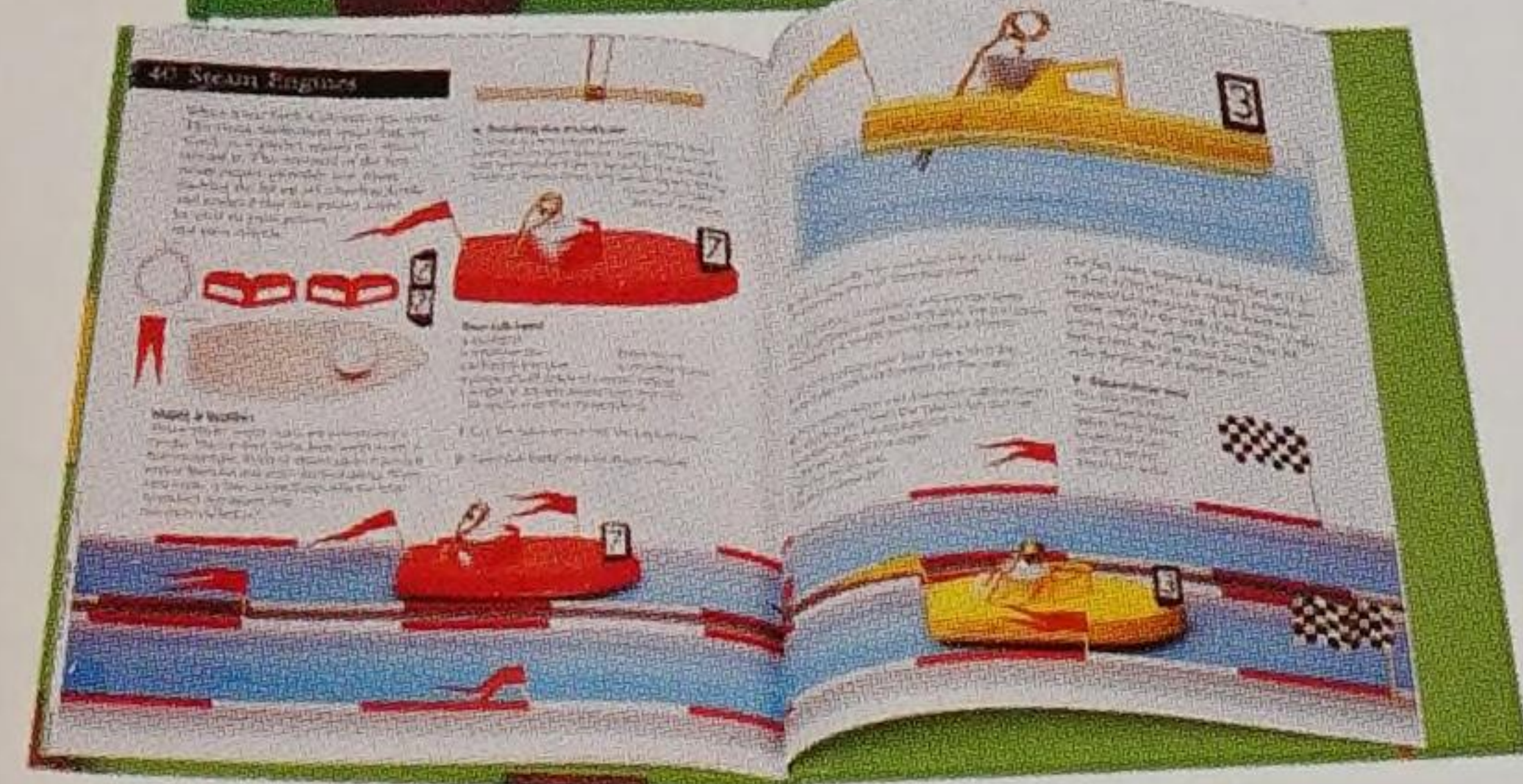
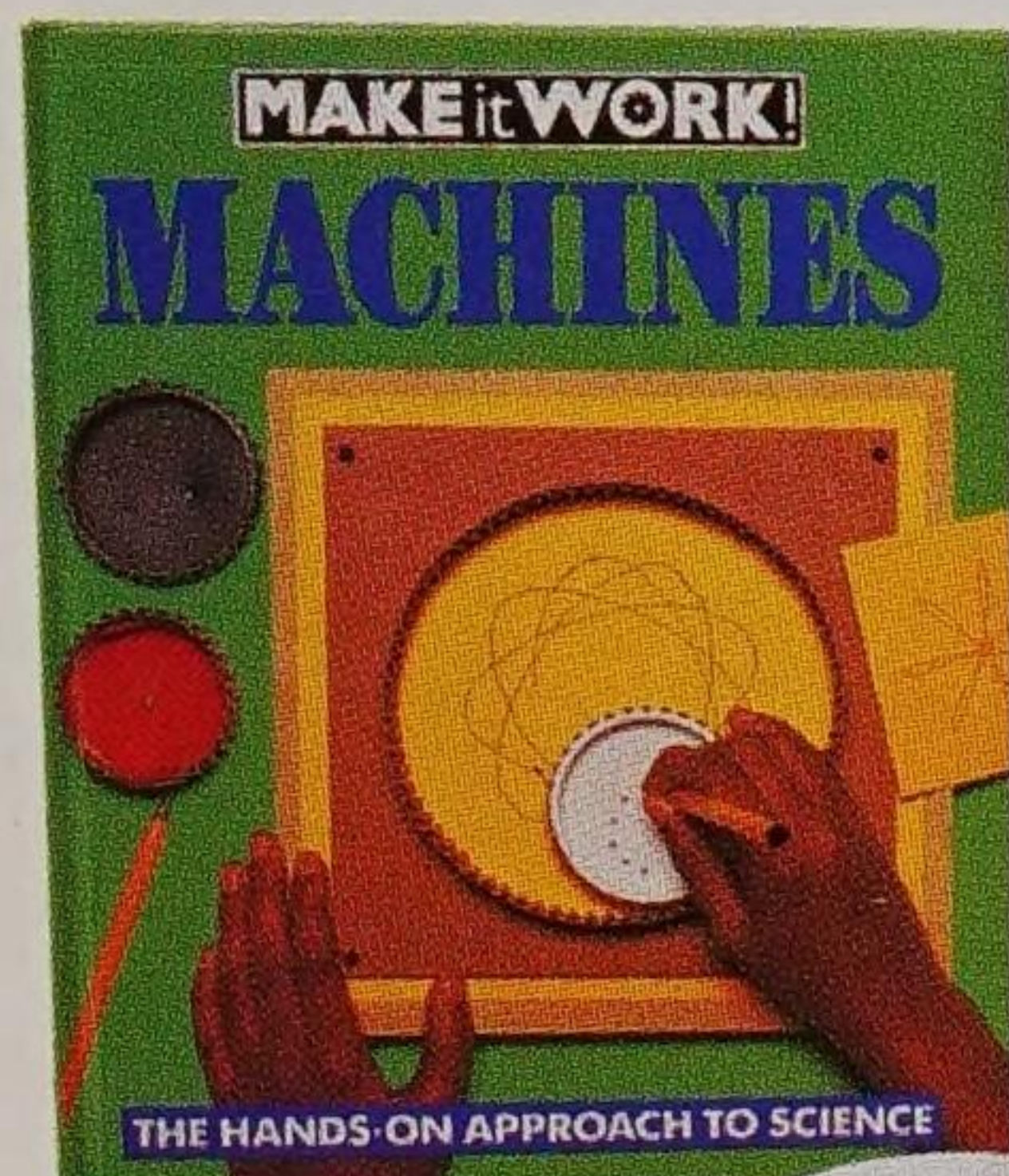
CD
ROM

GIZMOS & GADGETS

Students try to build the best auto, air, and alternative energy racing vehicles. To get parts for their vehicles, they have to solve puzzles that deal with gears, force, magnetism, electricity, simple machines, and more.

N754690 Mac/Win CD-ROM—\$89

N754691 Mac 3.5"—\$89



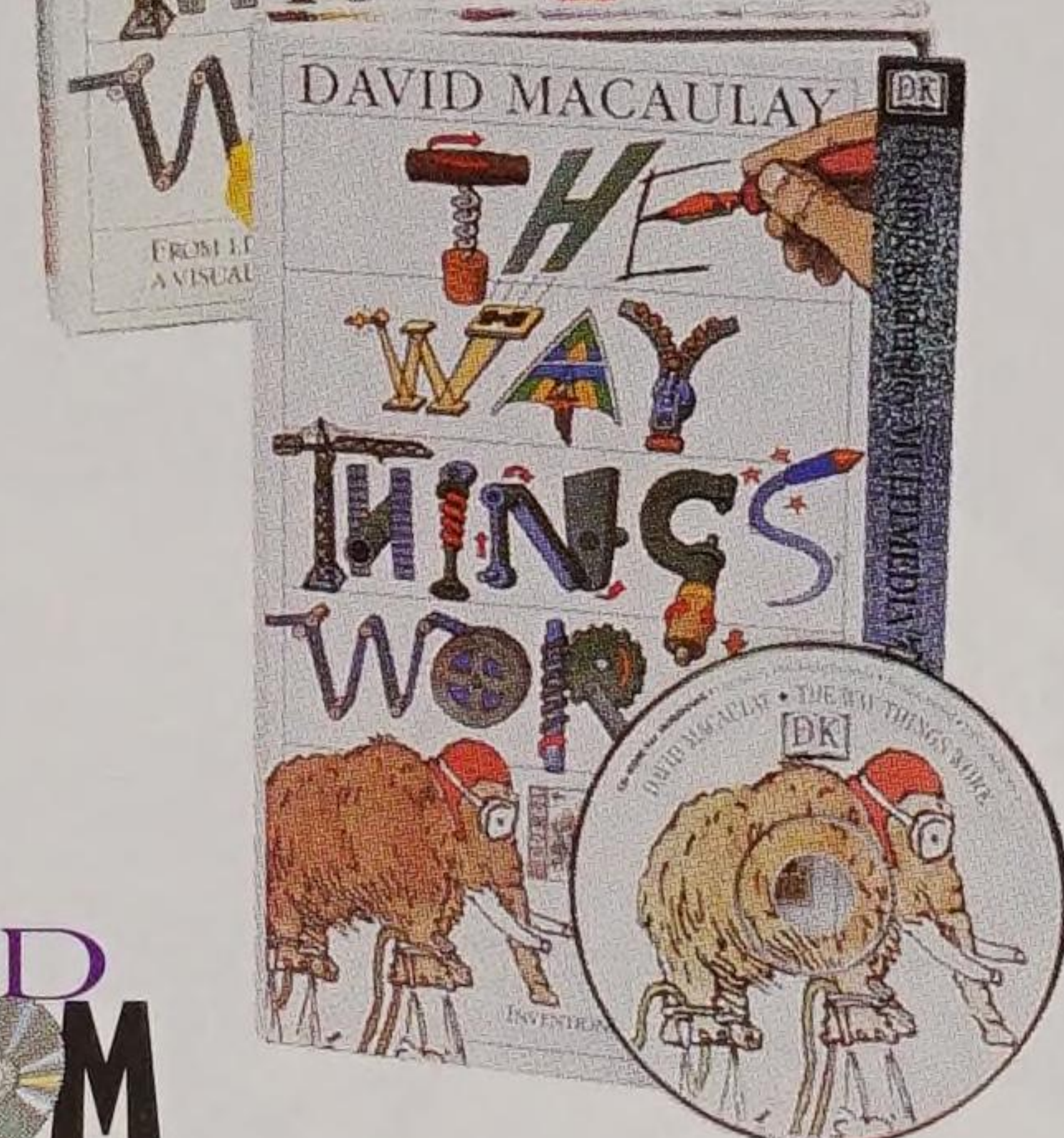
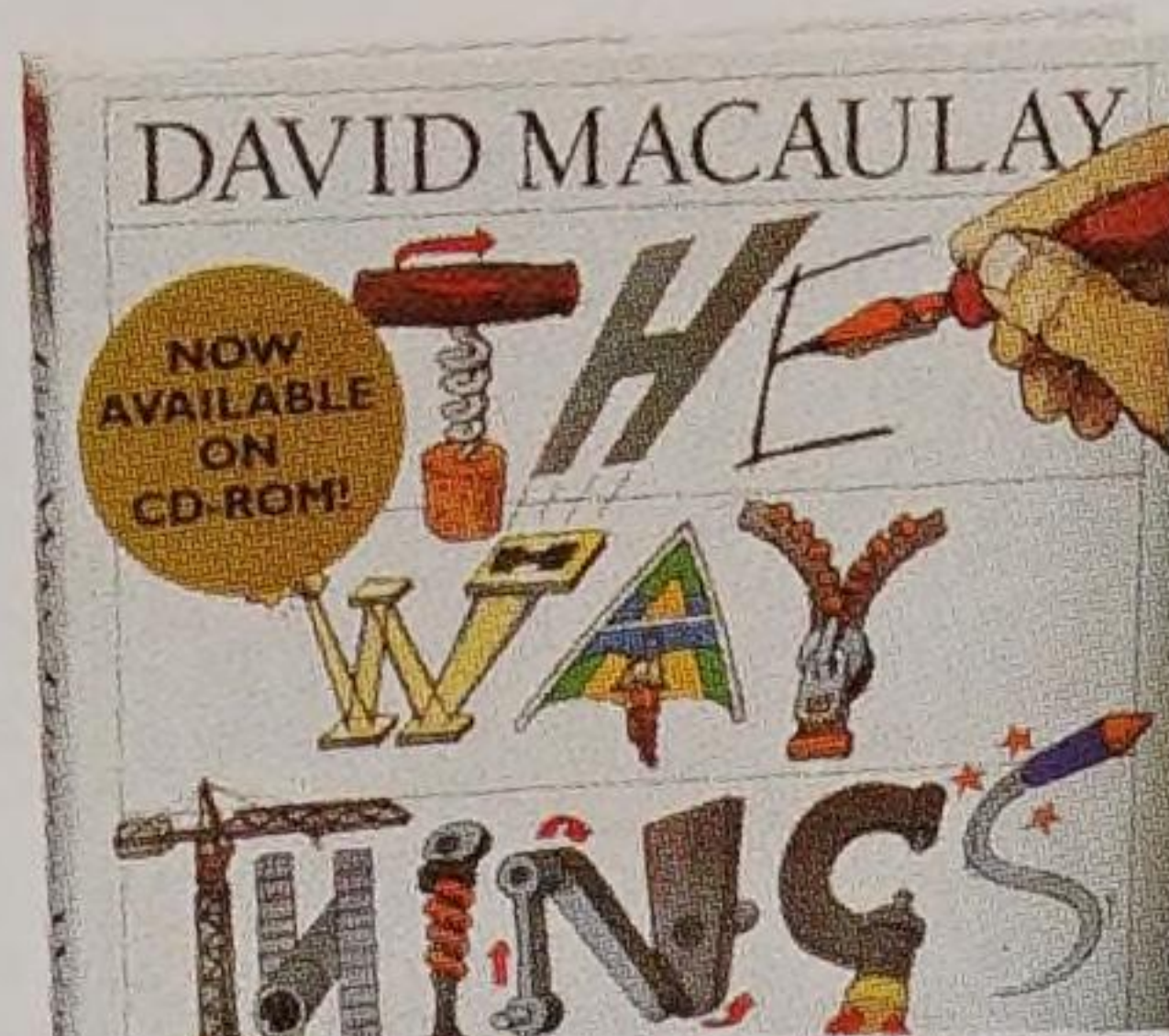
USBORNE MACHINES

What do a pair of scissors and a satellite have in common? Find out in this fascinating book that explains everything from what machines do to how they help people every day. Includes a glossary of terms and colorful illustrations. Land machines, flying machines, time machines, the human machine . . . they're all included!

Paperback, 32 pages.

Reading Level: Intermediate-Junior High

N756061—\$6.95



CD
ROM

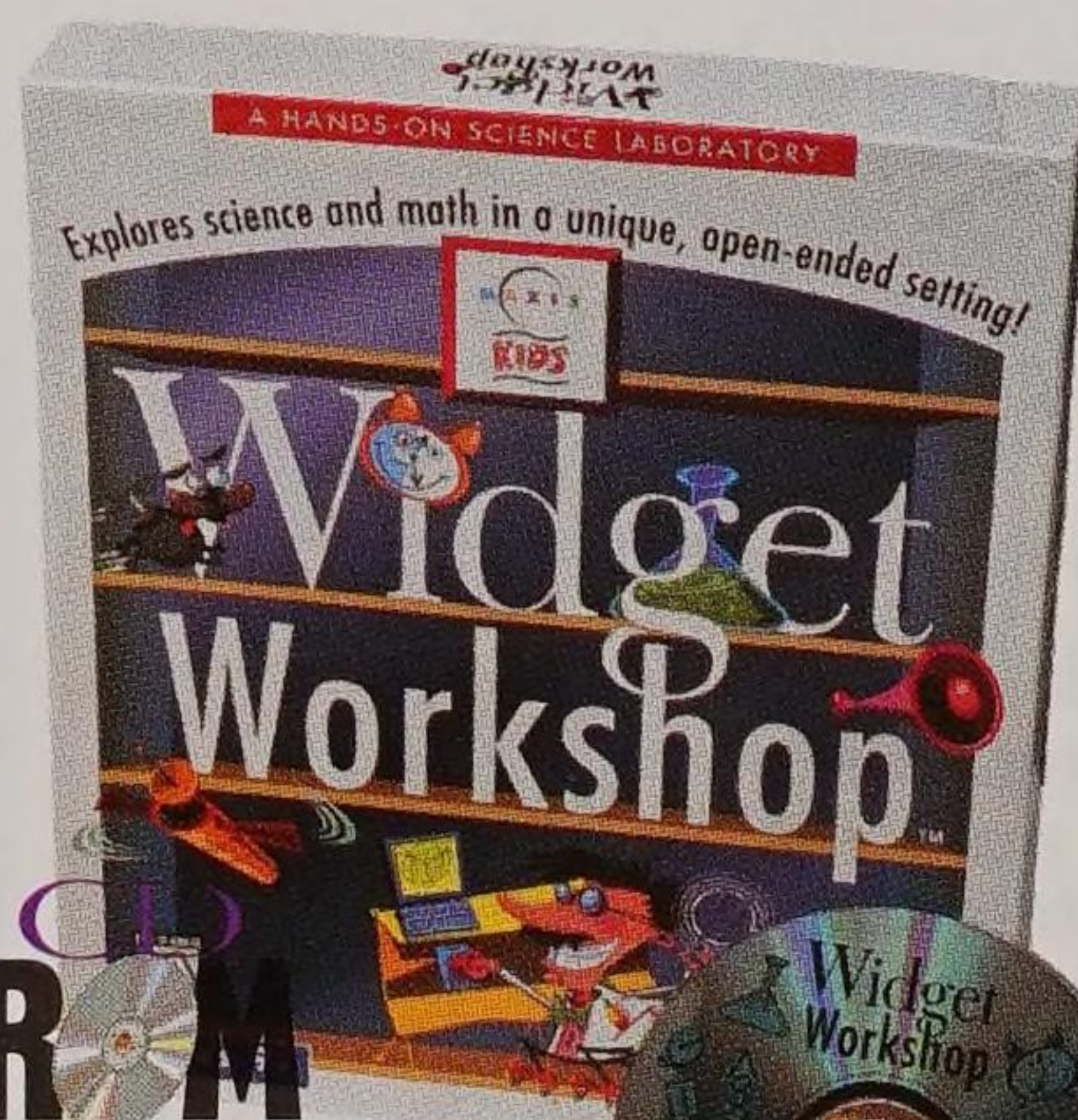
THE WAY THINGS WORK ON CD-ROM

The ever-popular book by David Macaulay comes to life in this interactive CD-ROM! Vivid "zoom-in" illustrations and clear, easy-to-understand text descriptions help students comprehend the workings of machines, inventions, and technology.

The illustrations jump into motion in incredible and humorous animations. Includes over 1,000 illustrations, 300 animations, and more than 60 minutes of audio.

N754534 Mac/Win CD-ROM—\$49

N712210 384 pg. Book—\$29.95



CD
ROM

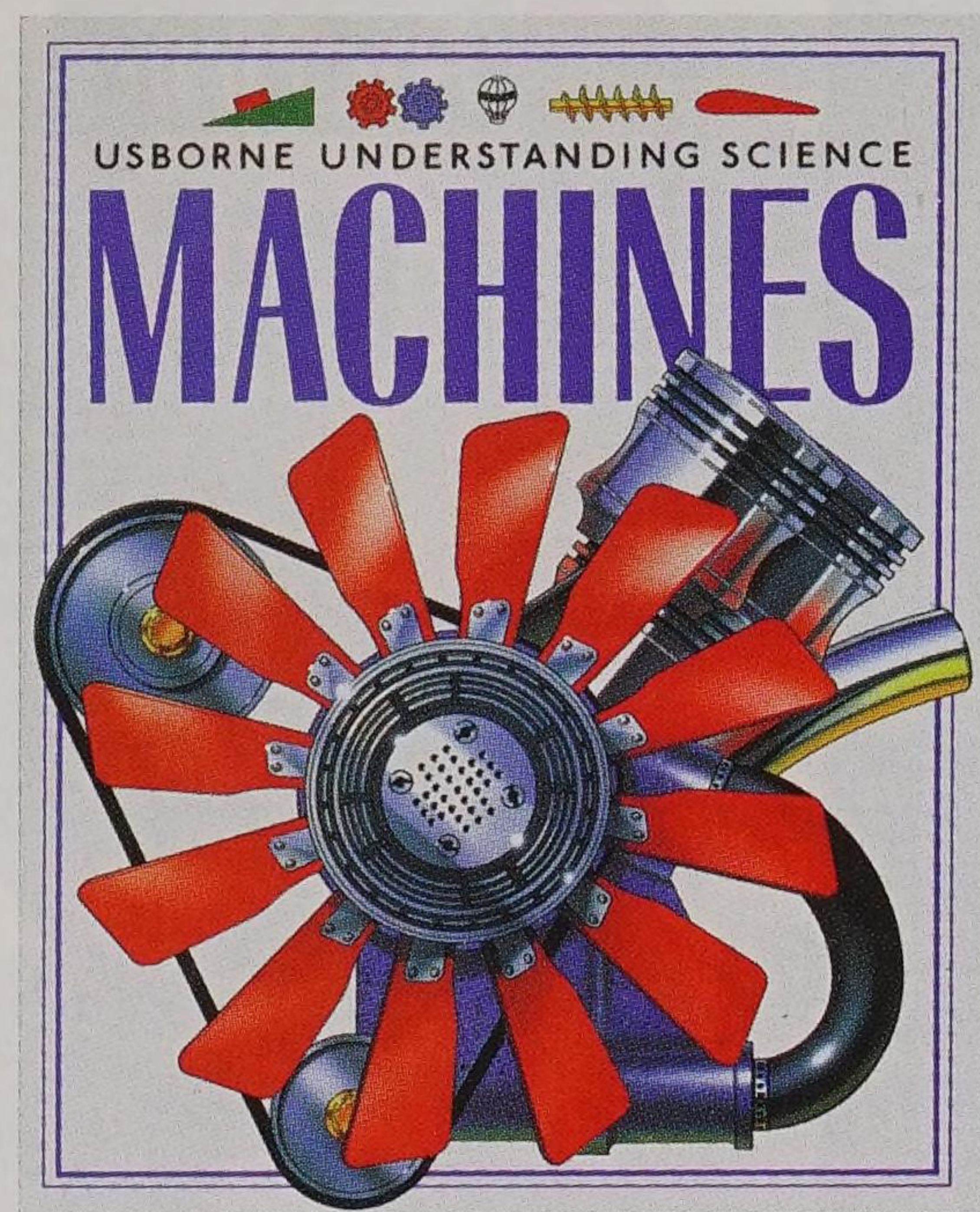
WIDGET WORKSHOP CD-ROM

Don't get bored with science, get mad! Not angry mad—mad scientist mad! Widget Workshop is a mad scientist's laboratory, a garage workshop, and an attic full of neat stuff to play with—all in one and on your computer screen!

For ages 8 and up.

N753037 Mac/Win CD-ROM—\$49.95

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MAKE IT WORK! MACHINES

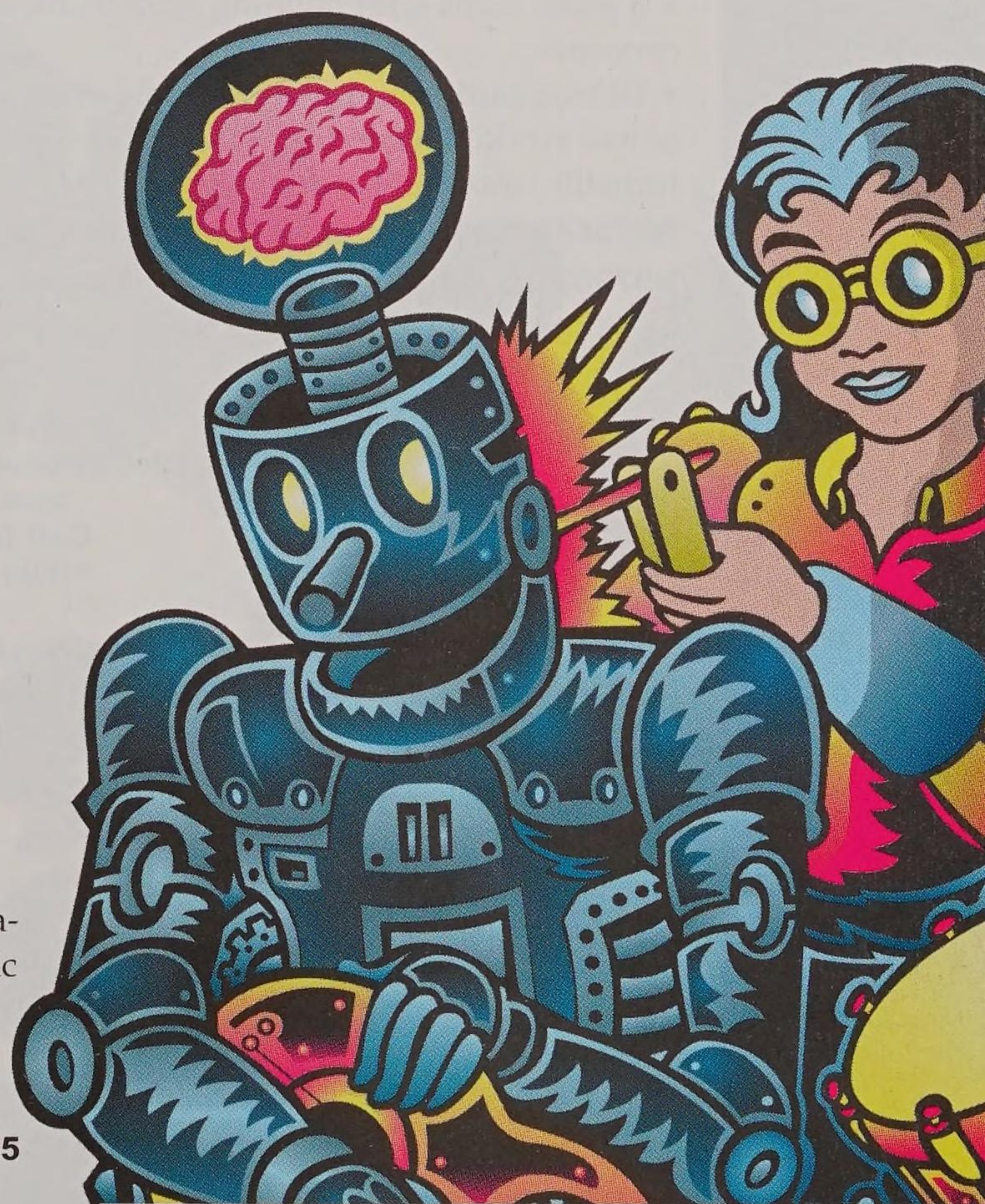
David Glover

Through conducting their own experiments, students discover scientific principles! They'll learn answers to puzzling questions—Why do bicycles have gears? What makes a pendulum swing? How do pulleys make heavy loads lighter? They'll build a popcorn dispenser, drawing enlarger, marble-operated clock, and a cool rocket.

Hardback, 48 pages.

Reading Level: Intermediate - Middle School

N752170—\$11.95



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LEGO Technic



MOTORIZED SIMPLE MACHINES SET #979645

219 elements

This set is a wide-ranging tool for exploring simple machines that adds the concept of motorization. A 9-volt motor enables students to bring their projects to life. Through the building of realistic motorized models, students develop a strong understanding of mechanical principles.

- Designed for students working in pairs
- Includes a 9-volt motor, battery box and connecting lead
- Sturdy plastic storage tray with lid for easy classroom cleanup, inventory and storage
- 8 green cards with building projects for exploration of simple machines concepts
- 10 blue cards for applying simple machines concepts by building models of real world devices like: folding lawn chair, drawbridge, conveyor belt, turnstile, crane and more

N979645 Motorized Simple Machines Set—\$98

N979631 Simple and Motorized Machines Activity Pack—\$39.75

N901185 Motorized Simple Machines Technology Pack—\$490

Professional staff
development available in
most states.
Call for details.
1-800-362-4308



EDUCATIONAL CONCEPTS

- operation of levers
- wheel and axle, pulley and gear system operation
- interaction of mechanical components
- hands-on application of simple machine principles
- practical understanding of how simple machines are used in everyday items
- automation and motorization



SIMPLE MACHINES (TEACHER'S EDITION) **New!**

Students will explore the ancient application of six simple machines: the inclined plane, wedge, lever, screw, pulley, and wheel. Students will learn how different cultures and civilizations adapted and progressed with the use of these simple machines. The program concludes with the students exploring an interactive "Museum of Machines" designed to show ancient tools, animal adaptations, and combinations of simple machines and compound machines. The kit includes: Teacher's Guide, Student Science Journal, CD-ROM disc, and Science Lab Kit.

Age Level: Intermediate

N756099—\$199

Fax Orders Free
1-888-534-6784



EDUCATIONAL CONCEPTS

- belt and chain drives
- spur gears
- 90° transmission gears
- pulleys
- eccentric motion
- rack and pinion
- differential gear

Kids in this catalog are larger than they appear.

MANUFACTURING SYSTEMS

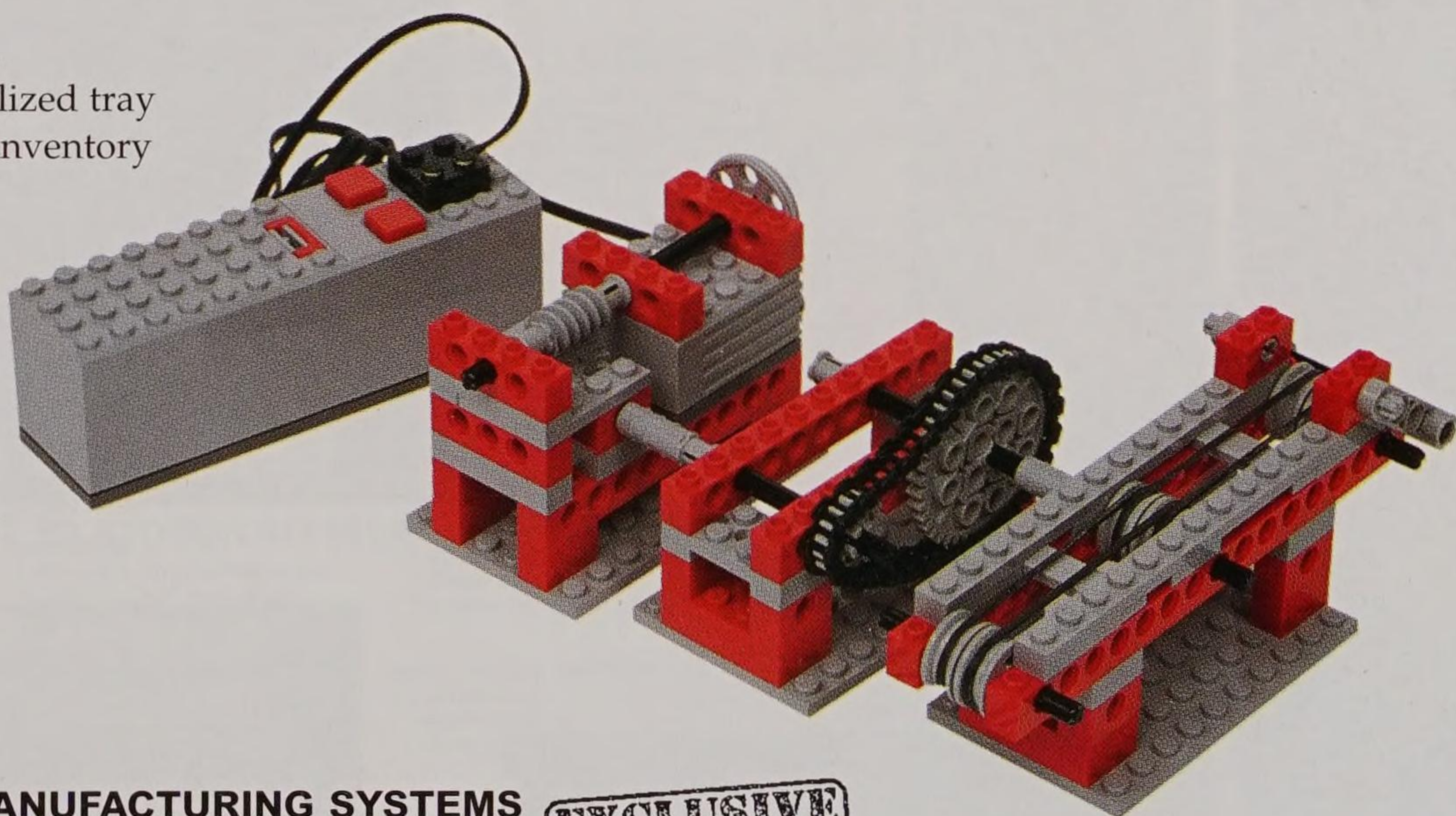
SET #979607

282 pieces

This set focuses on material handling and material processing. It covers 7 important mechanical concepts with connection to science and mathematics. Building projects include a crane, fork-lift, stamping press, turntable, conveyor belt and a food mixer.

- Designed for students working in pairs
- Includes a 9-volt motor, battery box, gears, differential, cams, pulleys, crane hook, tires and axles
- 16 step-by-step pictorial building cards
- Sturdy plastic storage case with clear compartmentalized tray
- Pictorial parts list that enables simple clean-up and inventory (Eggs and carton not included.)

N979607—\$94.50



MANUFACTURING SYSTEMS ACTIVITY PACK #979608

EXCLUSIVE

This literature pack is designed to help teachers in middle school technology education teach students about mechanical concepts related to manufacturing. The pack includes:

- 56-page Teacher Guide with 7 instructional units, each based on a specific topic, containing 4 different levels of building and problem solving activities
- 14 problem solving design brief activities that can be photocopied for student use

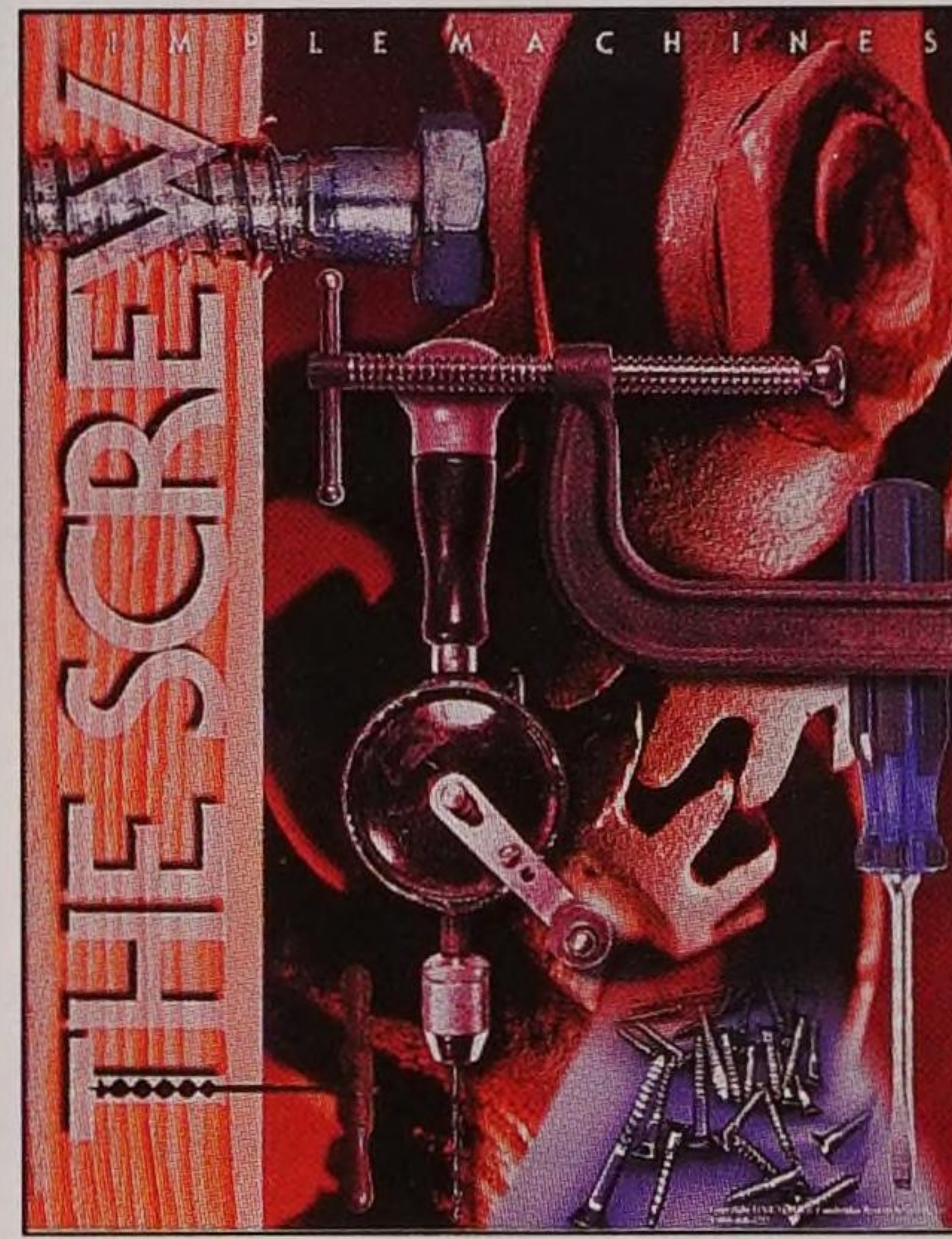
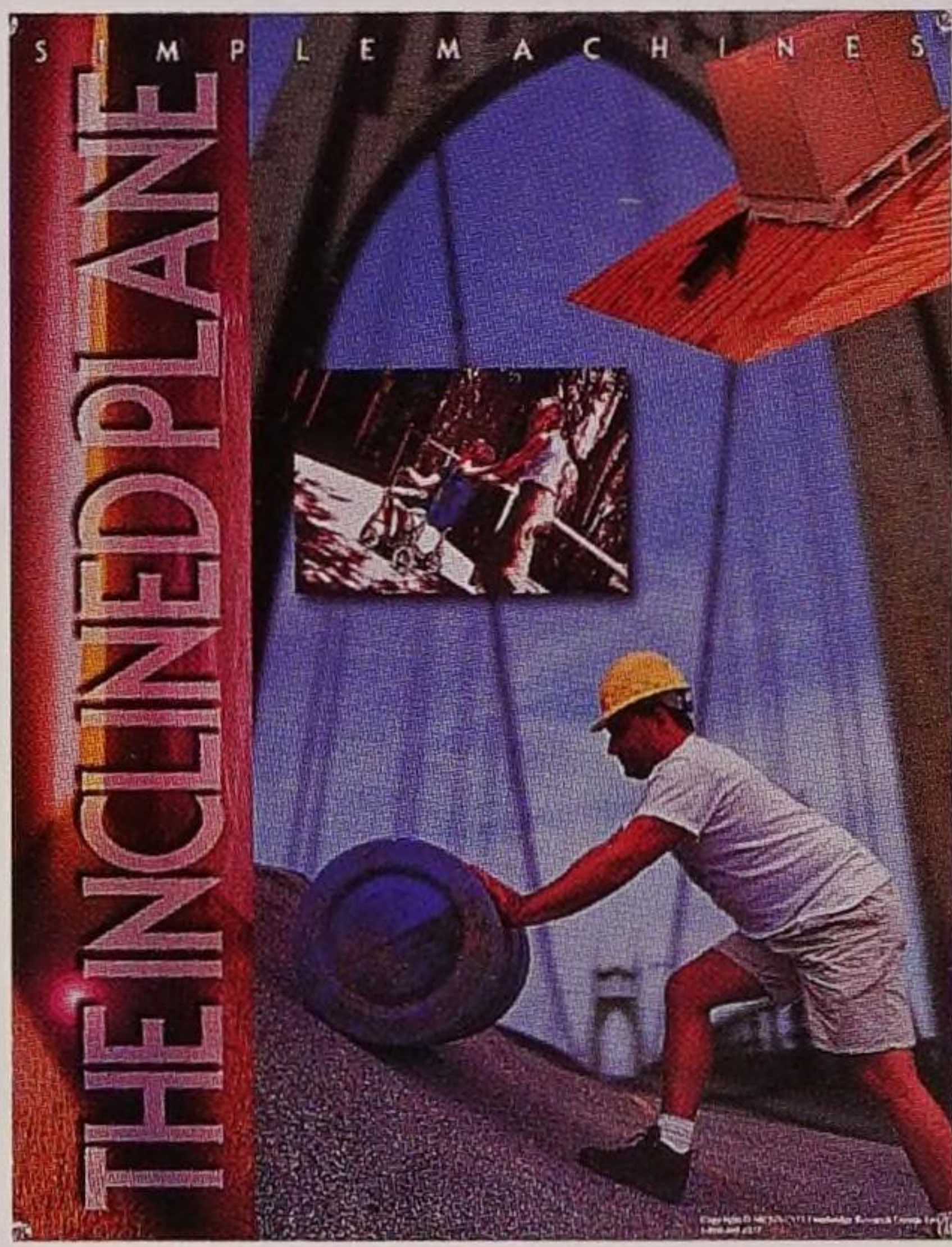
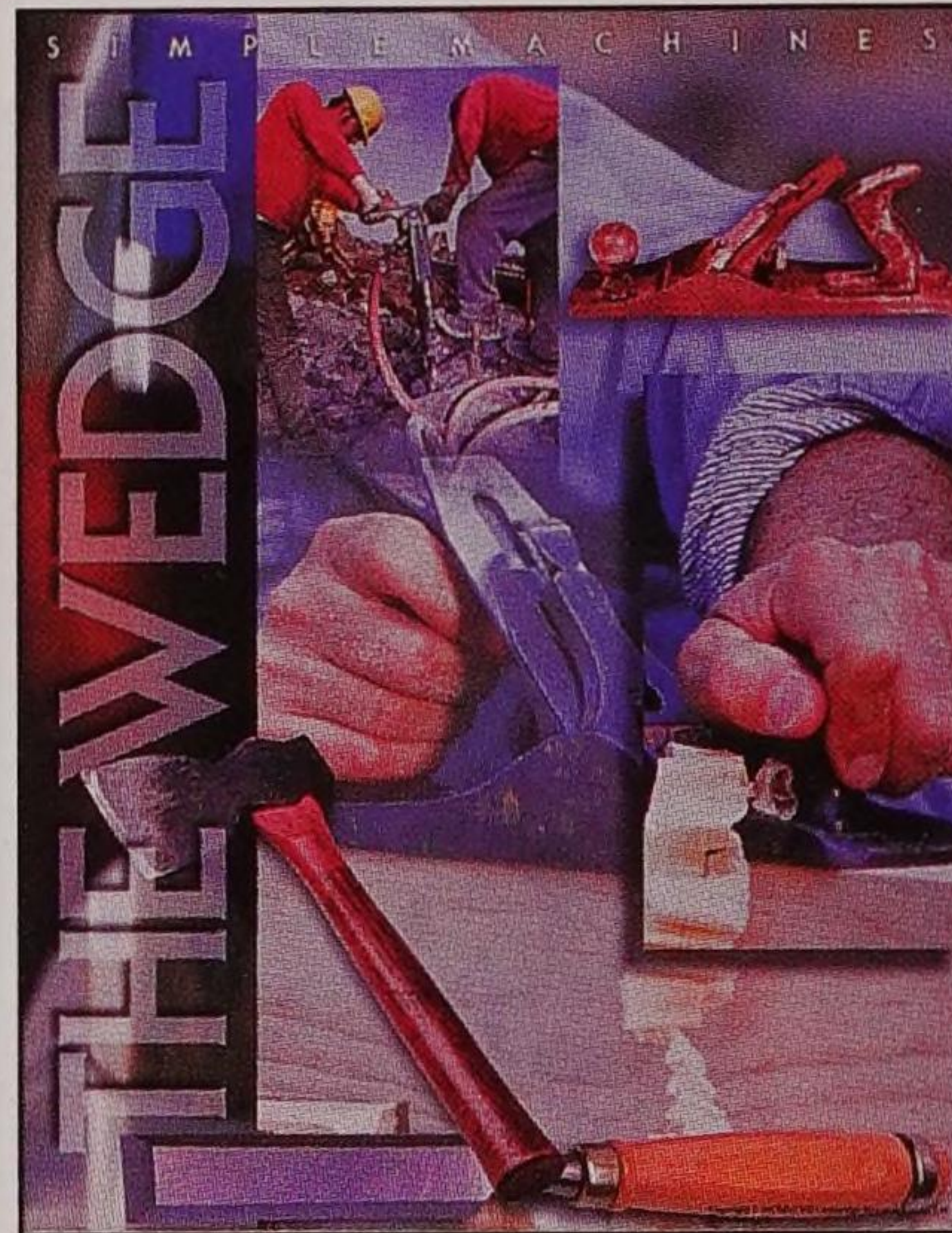
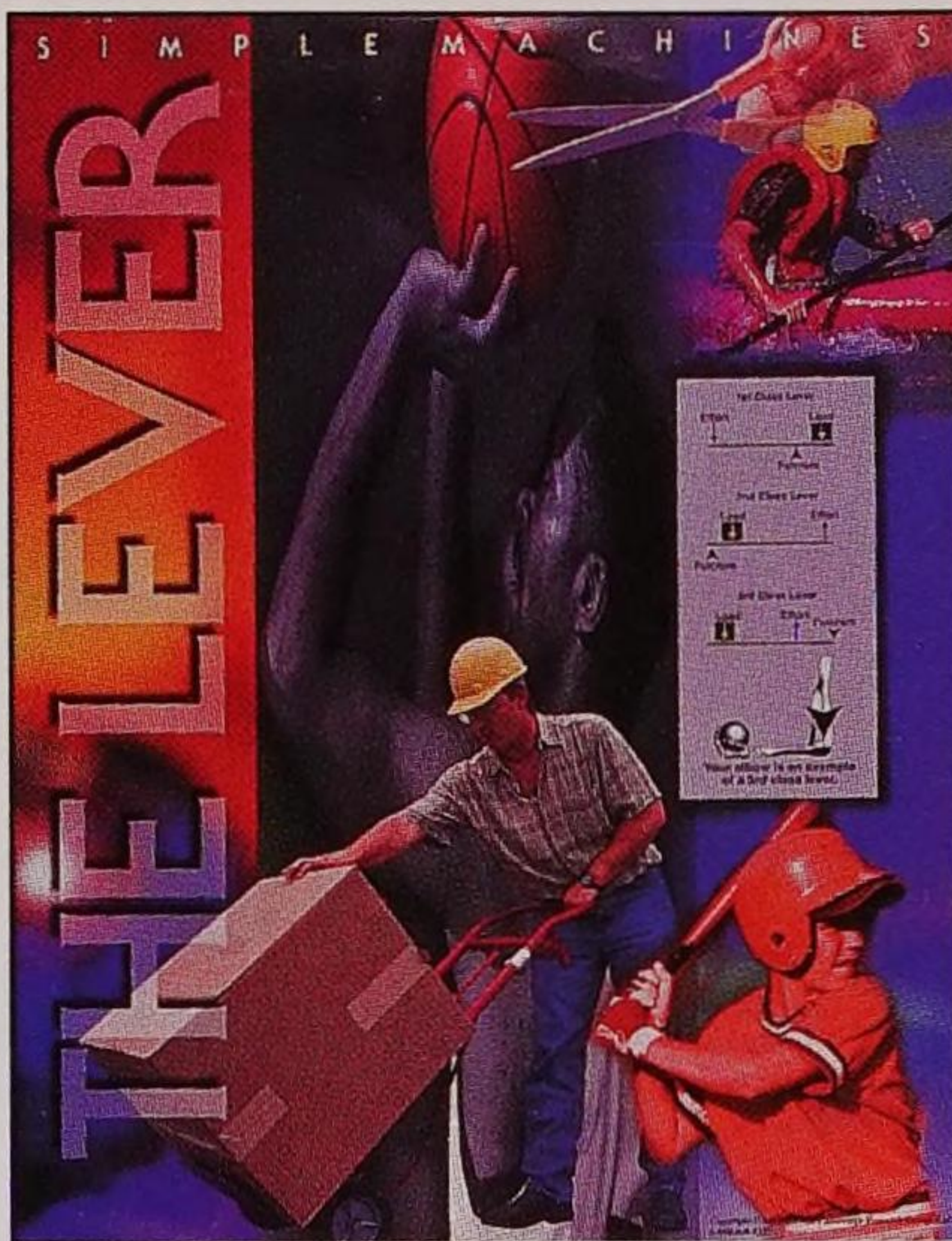
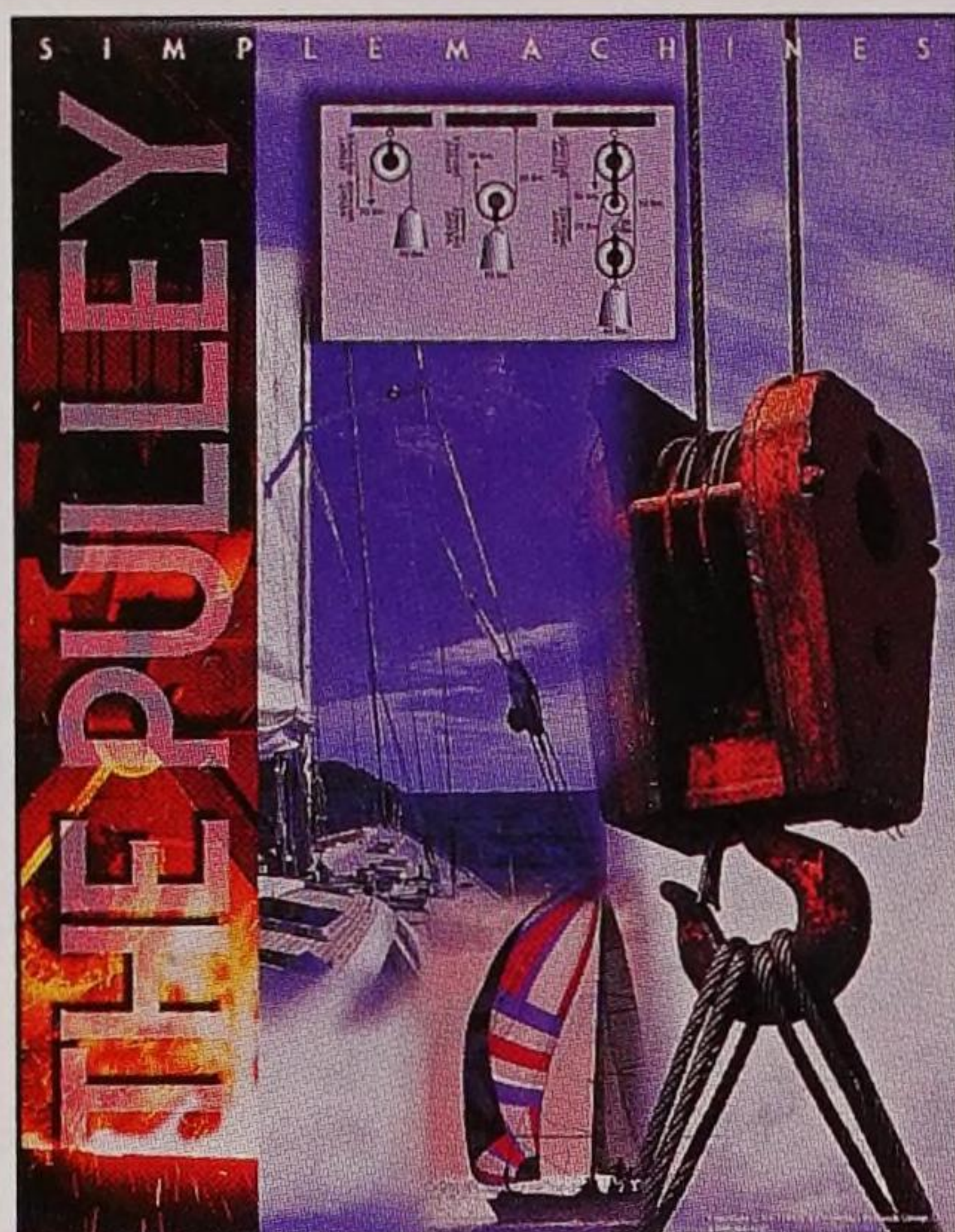
N979608—\$26.75



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This world belongs to the person who is wise enough to change his mind in the presence of facts.
Roy L. Smith



New!

SIMPLE MACHINES POSTERS

This series of six posters is an excellent addition to any technology classroom. The Wedge, The Lever, The Pulley, The Screw, The Wheel, The Inclined Plane. Size: 17" x 22".

THE PULLEY

N756052

THE LEVER

N756055

THE WEDGE

N756054

THE WHEEL

N756050

THE INCLINED PLANE

N756051

THE SCREW

N756053

\$5.95 ea.

Why Do We Use Robots?

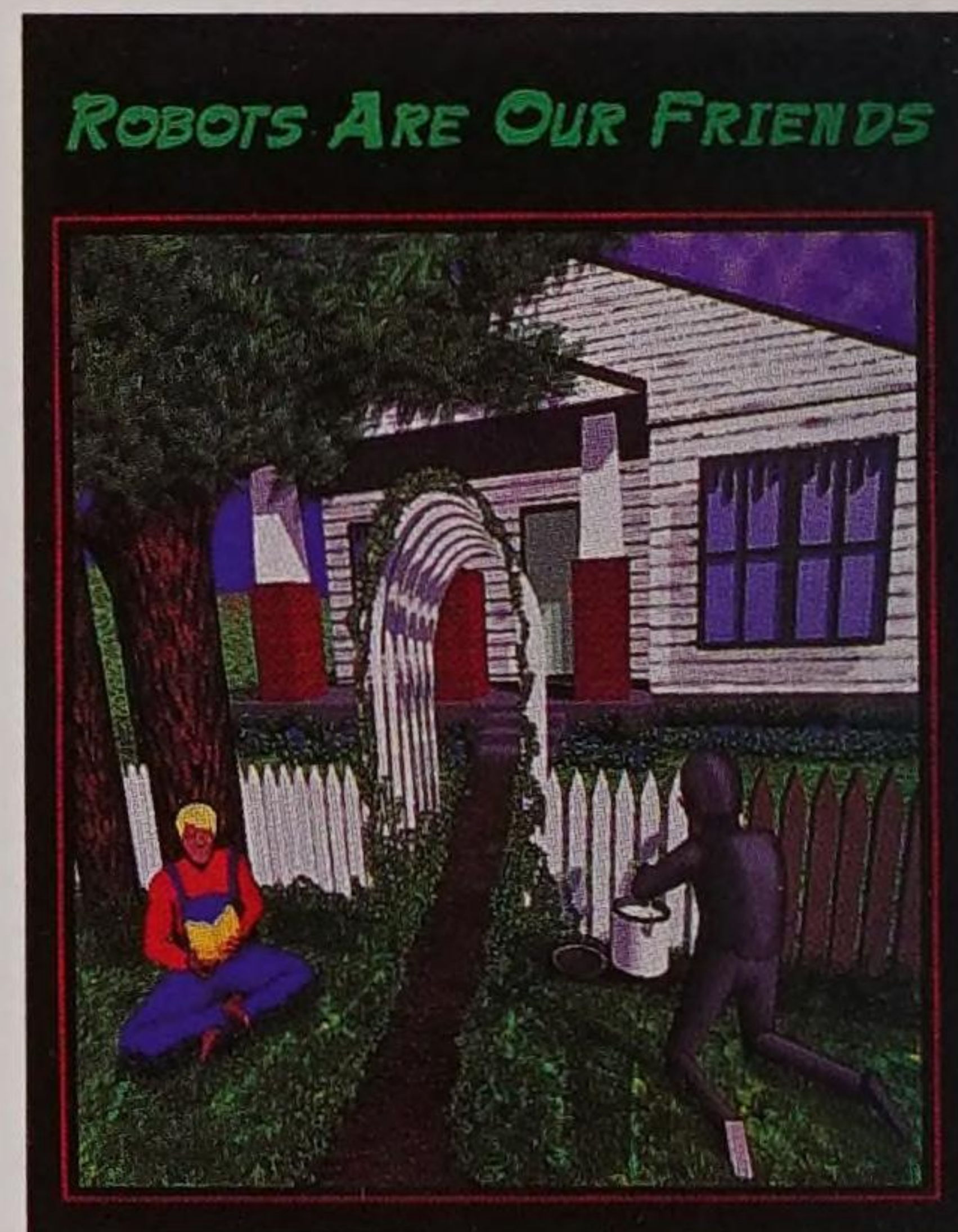
- To perform repetitive tasks**
On assembly lines in factories robots precisely perform repetitive tasks, saving on human worker injuries.
- To work in dangerous areas**
Robots are sent into areas containing hazardous materials, used for bomb disposal, and for cleaning up nuclear waste and chemical spills.
- To explore uninhabitable places**
Robots are used to travel to other planets to gather valuable information.
- To perform work humanly impossible**
Robots are used to lift and move excessive weight.

N756106 WHY DO WE USE ROBOTS

Robots Of The Future

UNDERWATER RESOURCES, MAINTENANCE, INDUSTRIAL, OTHER PLANETS, TECHNOLOGY, MEDICAL, EXPLORING.

N756110 ROBOTS OF THE FUTURE



N756107 ROBOTS ARE OUR FRIENDS

Careers In Robotics

Here is a look at careers in a company where robots are designed and manufactured to meet the needs of the paper industry.

PRODUCT MANAGER
The product manager is responsible for the development and marketing of the product. He or she is responsible for the product's success in the marketplace.

MACHINIST
The machinist is responsible for the operation and maintenance of the machinery used in the production of the product.

DOCUMENT SUPERVISOR
The document supervisor is responsible for the production and distribution of the product's documentation.

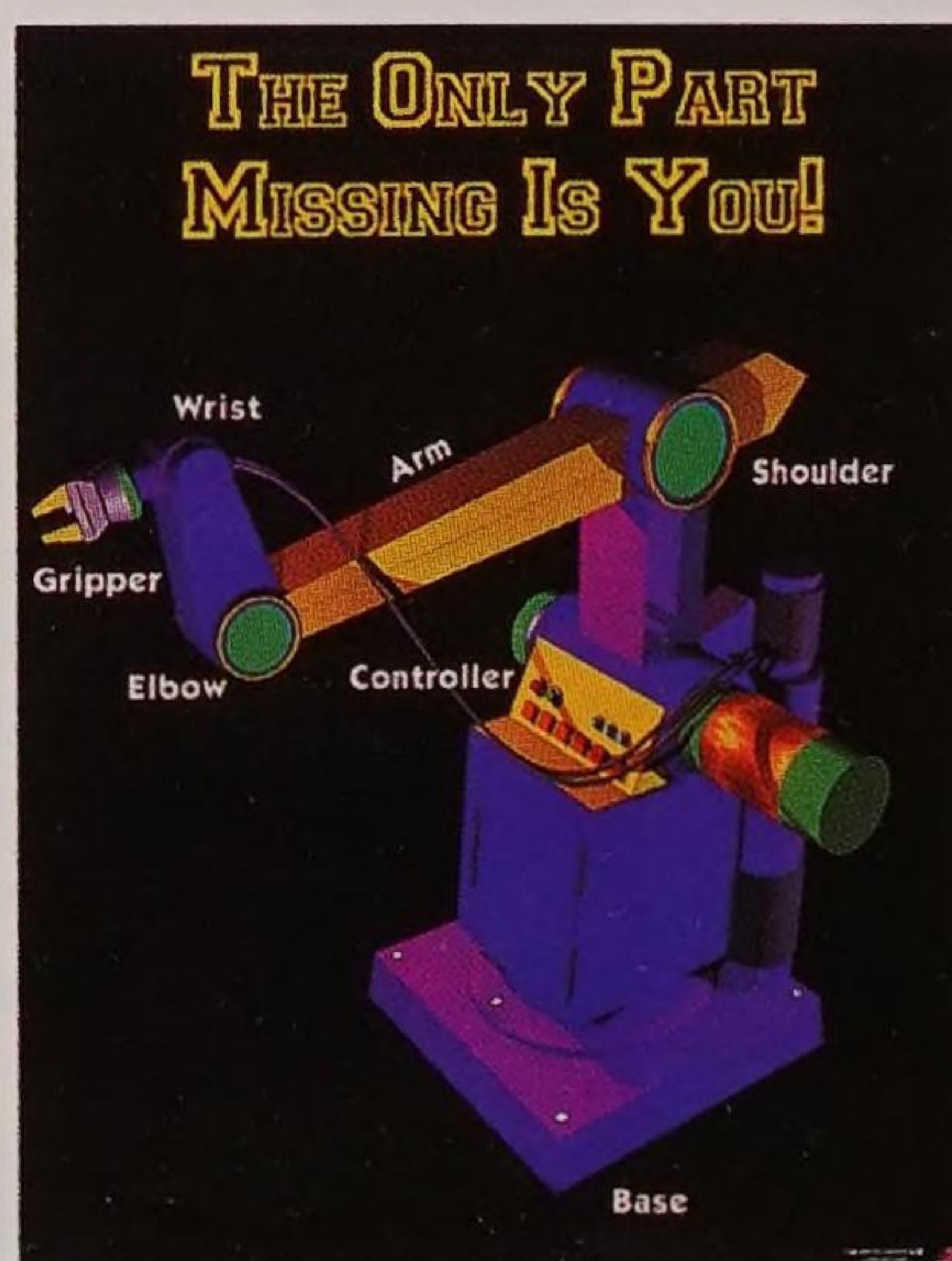
TECHNICAL DESIGNER
The technical designer is responsible for the design and development of the product's components.

PATTERN MAKER
The pattern maker is responsible for the creation of the product's patterns.

SALES REPRESENTATIVE
The sales representative is responsible for the sale and promotion of the product.

PROJECT ENGINEER
The project engineer is responsible for the management of the product's development project.

N756108 CAREERS IN ROBOTICS



N756109 THE ONLY PART MISSING IS YOU

New!

ROBOTICS POSTERS

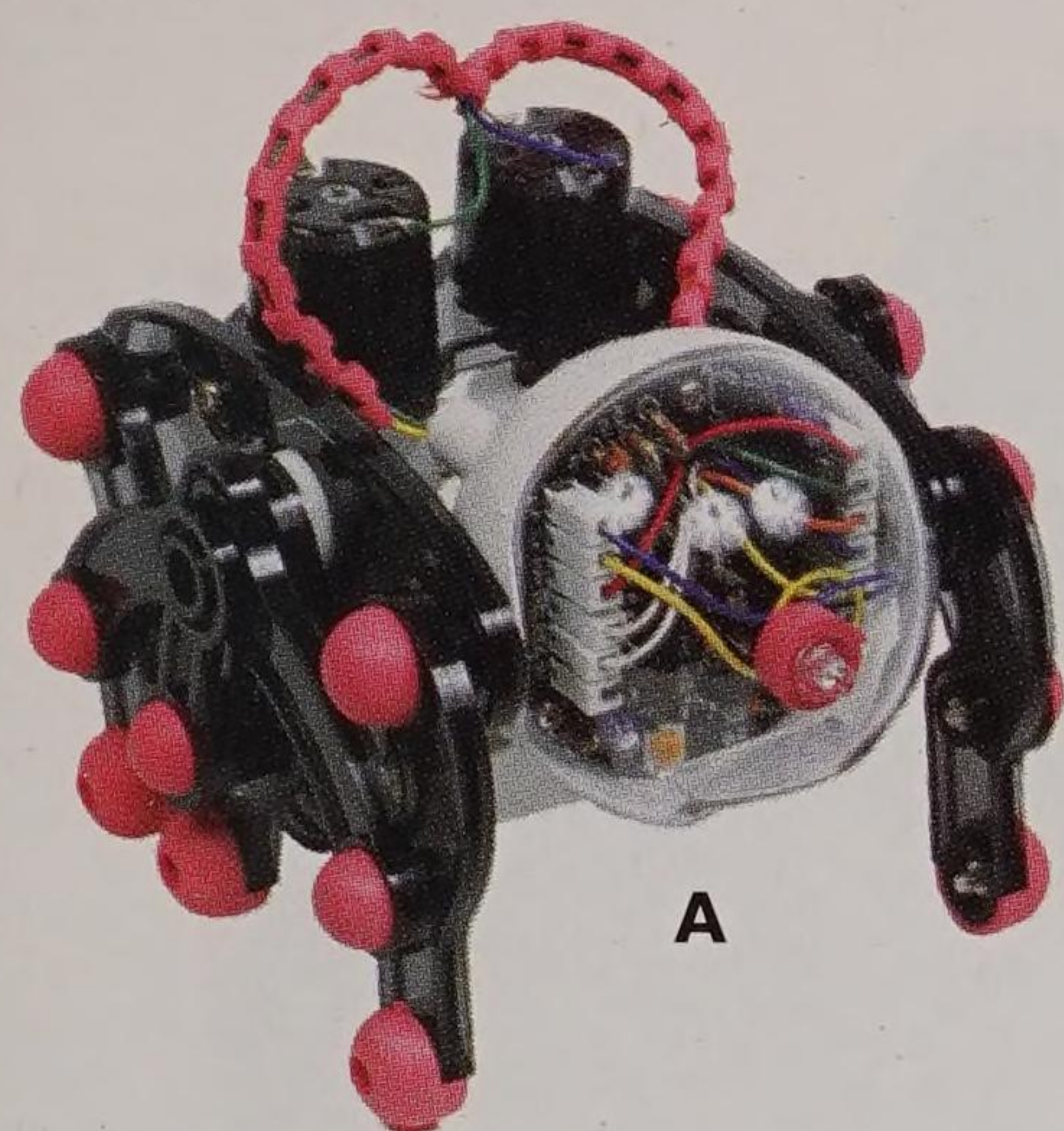
Five laminated posters about robots: parts, performance, friendship, use, and careers will keep your students excited about the next robotics information you put on the wall.

Size: 17" x 22"

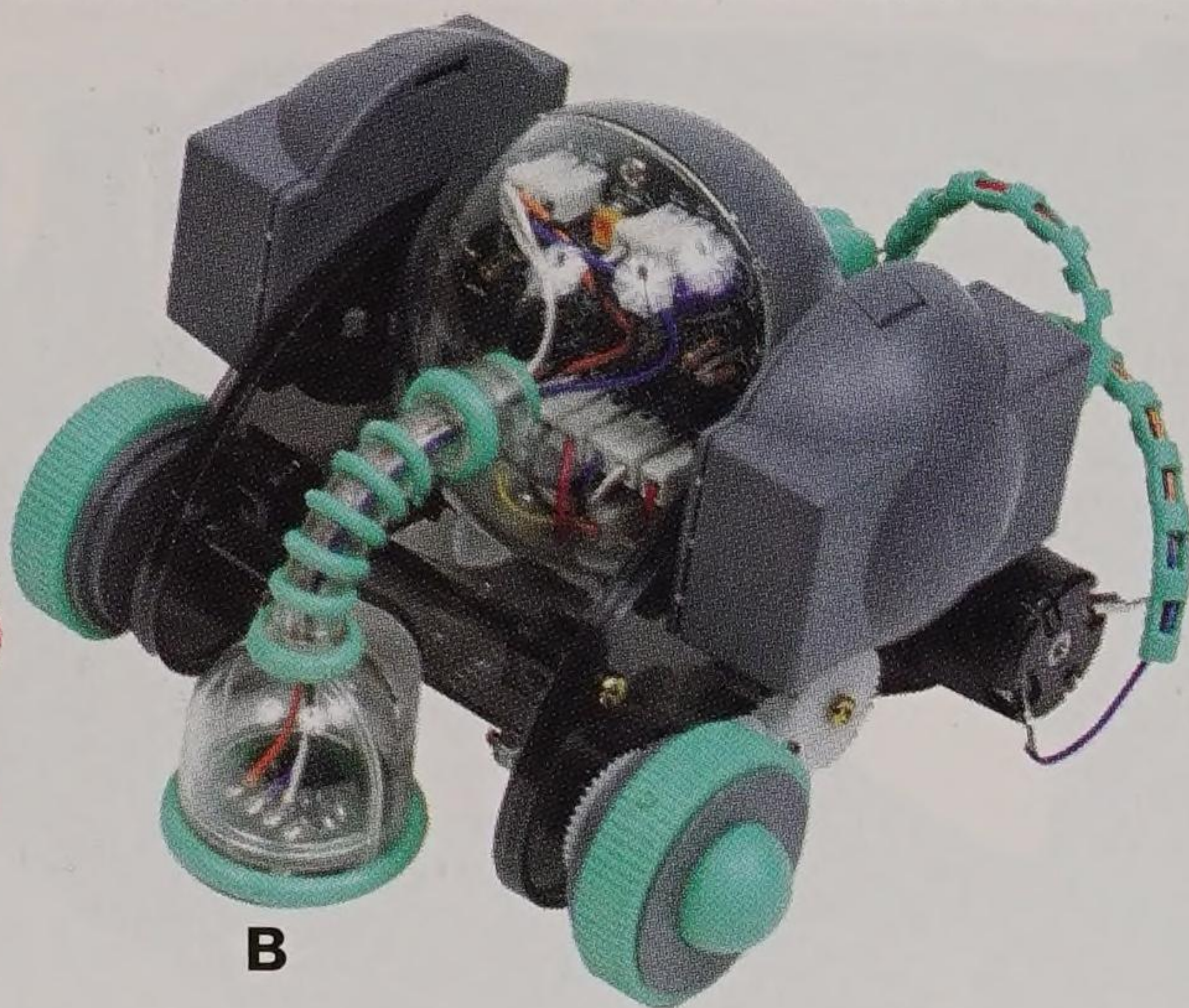
N756186—\$24.95 SET

\$5.95 EACH

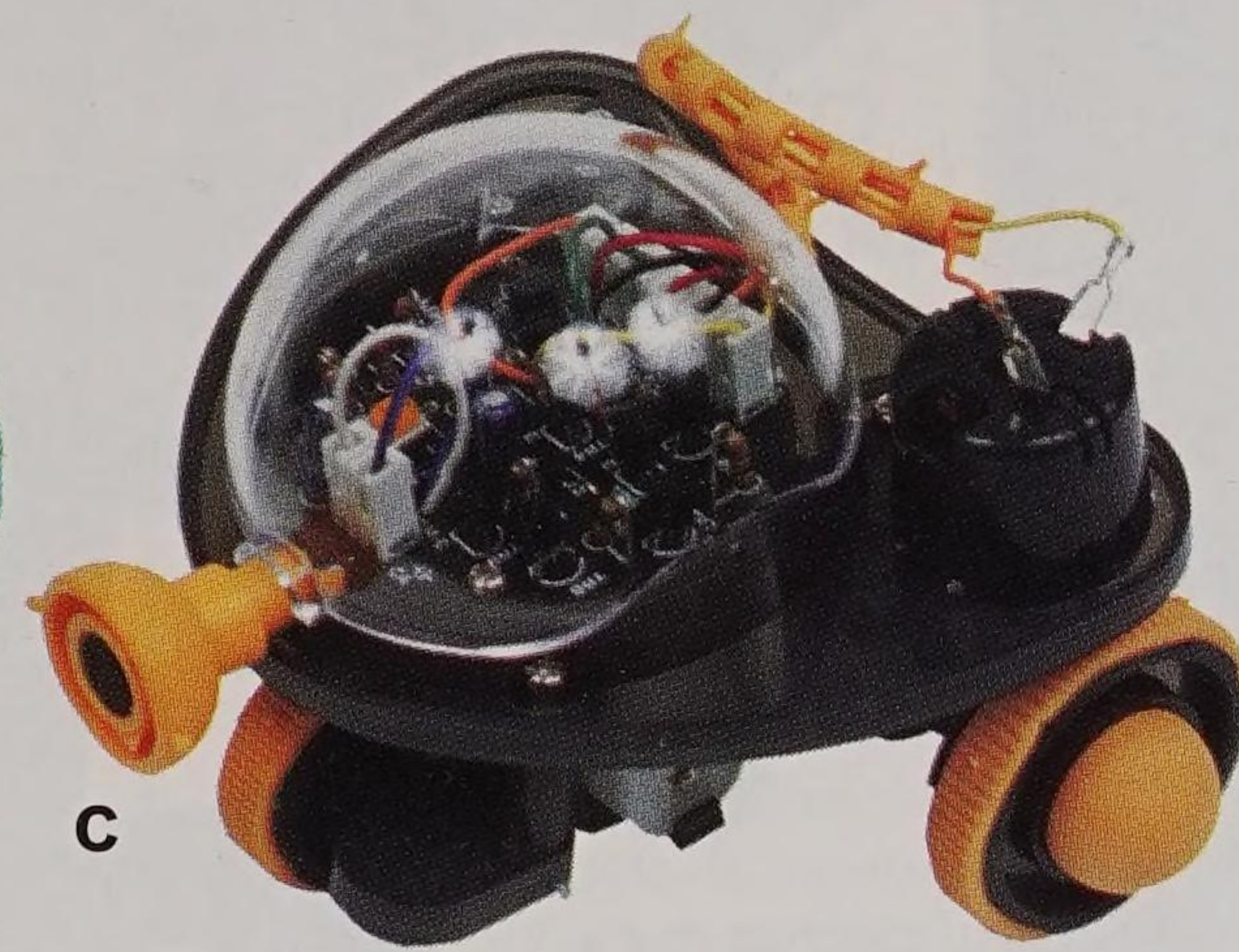
Fax Orders Free
1-888-534-6784



A



B



C

MOVIT MOVIT ROBOTS

A. SPIDER (INFRARED SENSOR)

An intelligent robot which knows how to avoid interference. This robot emits an infrared beam which detects an obstacle in front, turns left, and continues.

Unassembled, N751397—\$81

Assembled, N751398—\$108

Unassembled, requires soldering

N751838—\$78

B. LINE TRACKER

A robot that follows a black line drawn on white paper. The eye of the Line Tracker is a photo interrupter which projects and receives infrared rays. While black absorbs infrared rays, white reflects them. Features preassembled printed circuit board. Power source is two AA batteries and one 9V battery (not included). For ages 10 and up.

Unassembled, N751104—\$78

Assembled, N751105—\$105

Unassembled, requires soldering

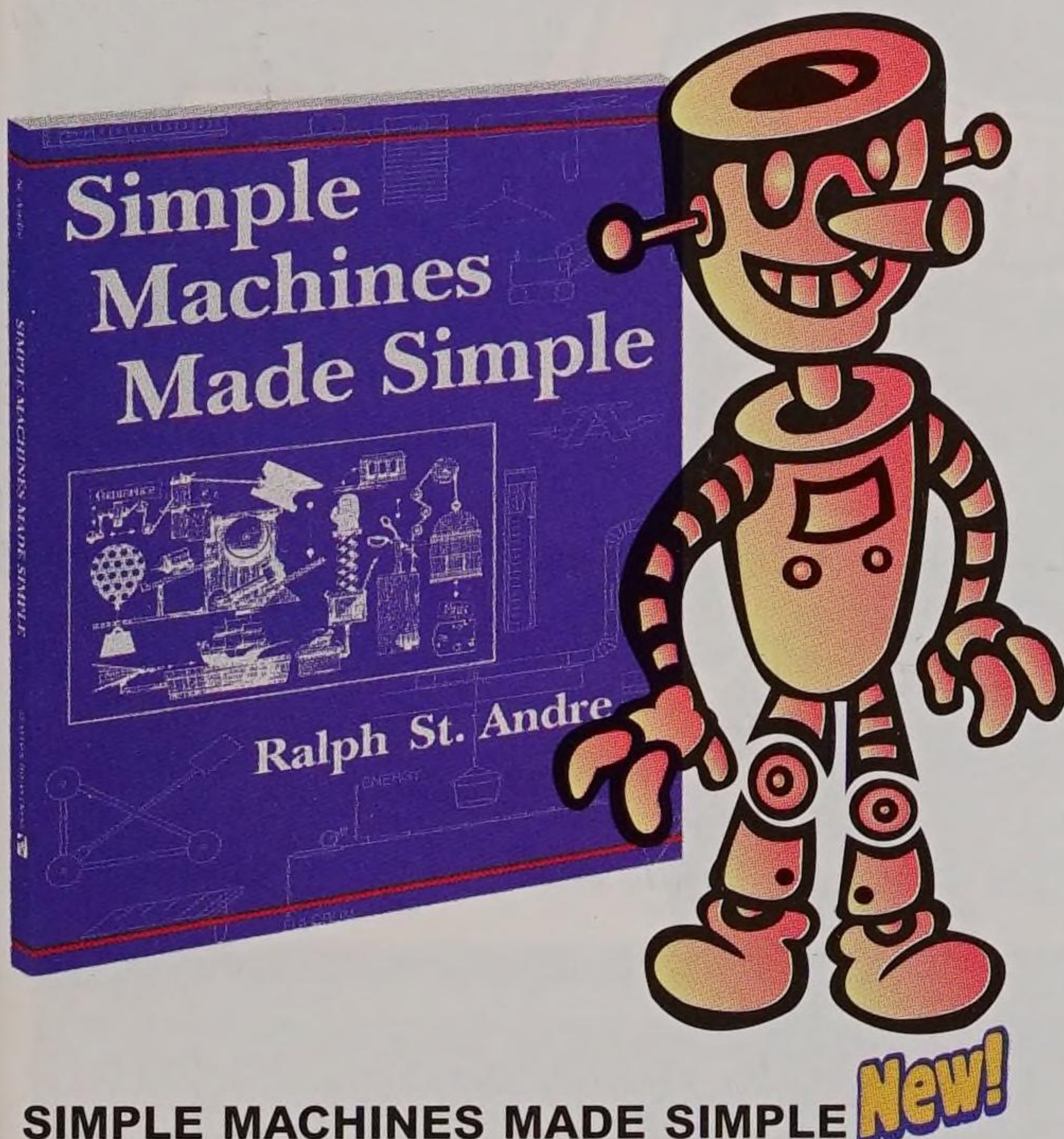
N751839—\$72

C. HYPERPEPPY

Students will be thrilled and amazed when they build and operate this sound-sensitive robot. Hyperpeppy is a robot with a built-in sensor which reacts to vibration from sound or physical contact. It moves forward, but when it senses a high pitched noise (such as a hand clap) or vibration from physical contact with an obstacle, it retreats by reversing and turning left for a preset time and then continues forward on a new course. Electronic board is preassembled.

N753002—\$24.95

N754193 Assembled HyperPeppy—\$46



SIMPLE MACHINES MADE SIMPLE **New!**

Teach your students essential scientific principles and basic mechanics through hands-on, cooperative learning activities that are not only easy to teach but also inexpensive and fun. As students experiment with gadgets that slide, pivot, turn, rub, and work, they learn why and how machines operate the way they do. Illustrated step-by-step instructions, materials lists, reproducible activity and assessment sheets, and estimated time required for activities make this a unique and practical resource.

Paperback, 150 pages.

Reading Level: Middle School

N756122—\$25

Problem solving like a scientist.

BY THE BOOK...

WHAT IT REALLY MEANS...

Problem

- Develop a question to be researched and answered.
- The question asks what you want to know.

What's the problem?!

- My stomach's rumbling, so what's going on?

Hypothesis

- Formulate a statement, based on prior knowledge, which predicts the outcome of experiments conducted to answer the "problem" question.

What am I gonna do about it?

- I think I'm hungry. Maybe if I ate a pizza I wouldn't be hungry.

Materials

- List all the materials needed.

What do I need?

- | | |
|--------------|--------------|
| Pizza Recipe | Cheese |
| Pepperoni | Tomato Paste |
| Sausage | Bread Dough |

Procedure

- Describe a plan for collecting information to answer the "problem" question in a step-by-step form.

How do I know if it works?

1. Follow recipe & prepare materials for baking.
2. Bake pizza in oven for allotted time.
3. Eat pizza and observe hunger status.

Experiment

- Conduct experiments by following the procedure plan.
- Record what measurements and data were collected.

What are we waiting for?!

- Let's start cookin' already!
- Follow the recipe above
 - Measure the results (are you still hungry?)

Conclusion

- Answer the "problem" question and explain the meaning of the experiment results by using written or graphic communication like charts, tables and pictures.

So what happened?

- Well, what do you think?
I was hungry and now I'm stuffed! In the future if I am hungry, I'll follow the procedure to fix it!
Make a chart to show your hunger status before and after the pizza.

PROBLEM SOLVING POSTER **New!**

Bet you never knew pizza could be part of the scientific problem solving process. This clever chart clearly and concisely describes each step of the process, and relates it to something with which every student is familiar-eating a pizza! 11" x 17"

N756194—\$4.95

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PITSCO **dacta**
PARTNERS IN INNOVATIVE EDUCATION

BRUTUS

PITSCO
INNOVATIVE EDUCATION

BRUTUS ROBOT ARM

Here's an industrial strength robotic arm that executes commands with delicate precision, yet is rugged enough to withstand years of student use. Using Brutus in conjunction with a PC, students can discover robotics by creating programs to manipulate objects and perform repetitive tasks.

THE SOFTWARE

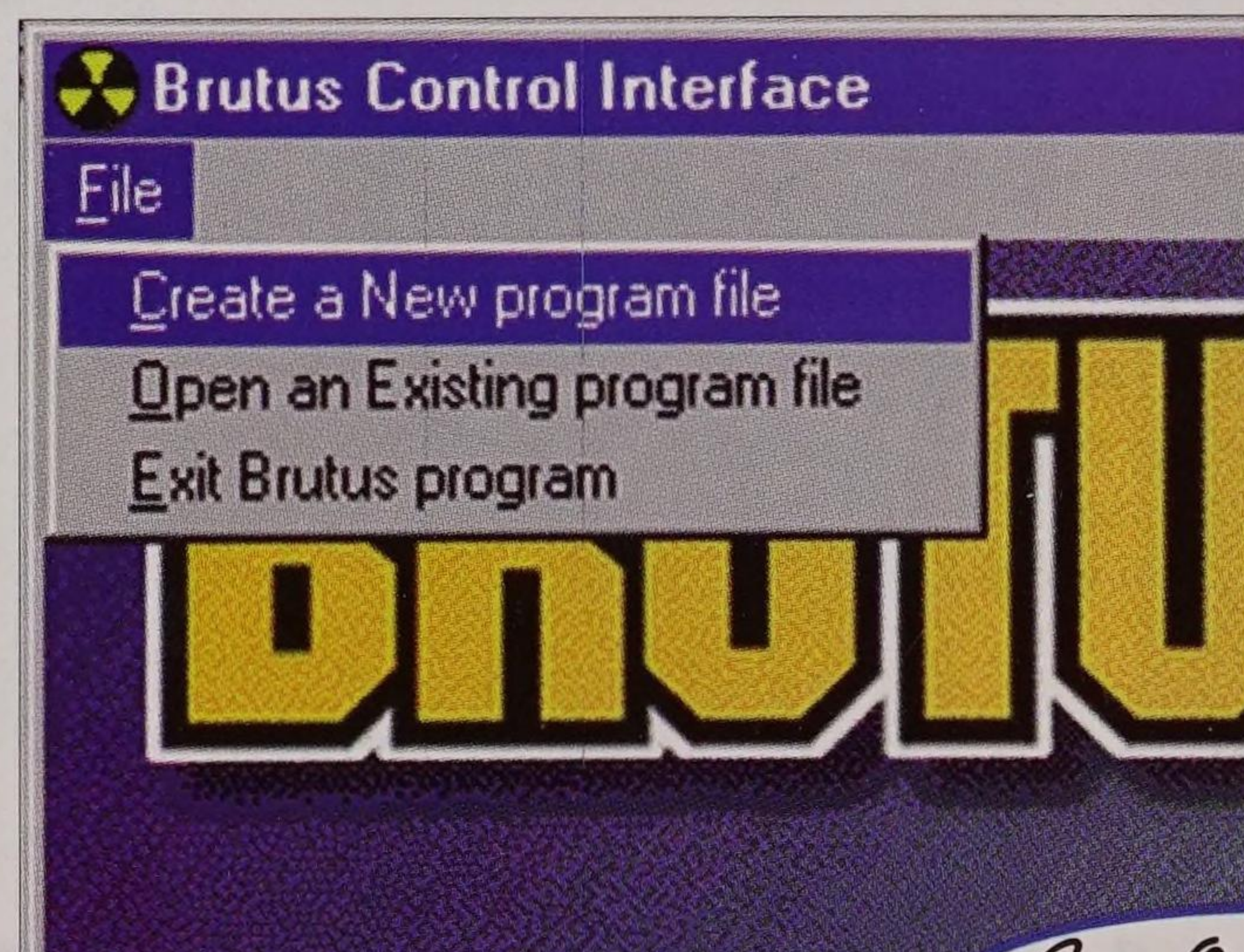
Students program Brutus using the included Windows 95 based software. The software features a user-friendly graphical interface and requires no prior programming knowledge. Using the teach pendant method, the software stores position data and will repeat entire sequences on command. Programs can be run in loop mode, and an easy-to-use editor allows quick correction of programming errors.

THE HARDWARE

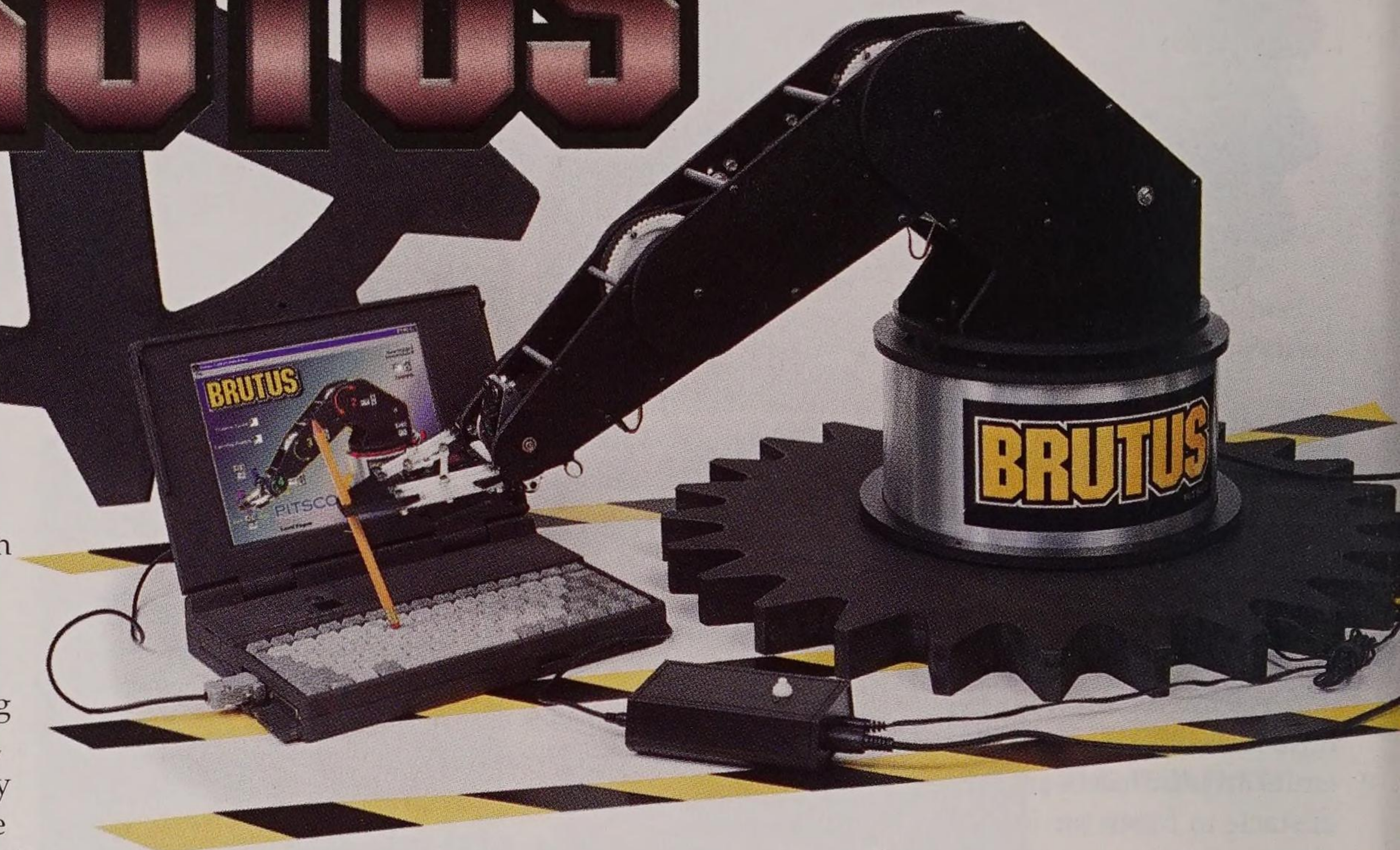
Brutus' unique "even-grip" pinchers grasp objects up to 3" wide without pushing them away. Powerful electric motors and rugged, heavy-gauge materials make up the base and arm components. You'll find no easily-stripped plastic gears on this brute!

Brutus is shipped completely assembled with computer interface hardware, connector cables, Windows 95 based software (DOS version is also included), and a robotics activity pack.

N754533—\$2,495



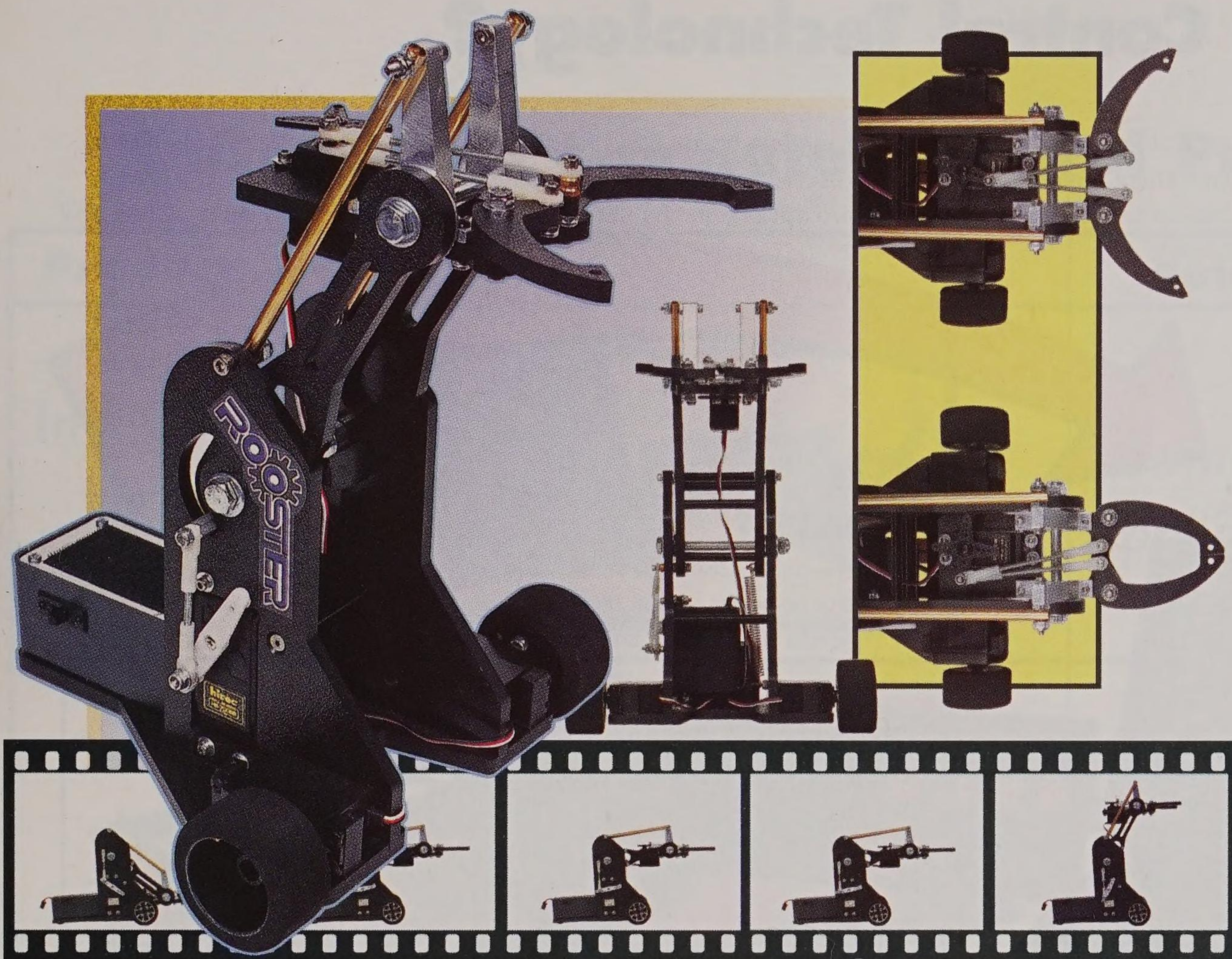
Entering programming mode.



Brutus control screen.

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1-888-534-6784

A young child, a fresh uncluttered mind, a world before him—to what treasures will you lead him?
Gladys M. Hunt



PITSCO
INNOVATIVE EDUCATION

ROOSTER R/C ROBOT

This radio-controlled robot is really something to crow about! It's a highly mobile and maneuverable device for manipulating and transporting objects.

The Rooster is the tool for giving students a dynamic, hands-on robotics experience! Rugged construction ensures that the Rooster will stand up to continuous student use.

Includes a radio transmitter, integrated rechargeable battery pack, charger, detailed instructions, and exciting robotics activities. Robot base dimensions: 8" wide and 7-1/2" long. Maximum gripper height is 9".

N717273—\$575

Buy 2 for \$995

NOVION

PITSCO
INNOVATIVE EDUCATION

LUNAR ROVER

At last, a computer interfaced robot which is made from quality components and isn't anchored to a table or burdened by cumbersome cables. The Lunar Rover is controlled remotely by a PC-compatible computer and a radio transmitter. An easy-to-use software interface allows students to manually control the Rover with keystrokes. Or, students can program a sequence using easily mastered commands. The Lunar Rover comes with everything you need—rechargeable battery pack and charger, transmitter with interface cable and AC adapter, and software on a 3-1/2" disk. Can also be controlled manually, without the computer. Length: 10", width: 8", height: 4"

N754062—\$595



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PITSCO  **dacta**
PARTNERS IN INNOVATIVE EDUCATION

What is LEGO Dacta Control Technology?

With this series of LEGO Dacta products, students construct models from LEGO building elements and use the computer to control the models and interact with them. Using a user-friendly software and interface, students create programs to initiate movement, collect data and respond to sensor input. There are two options in the LEGO Dacta Control line: Intelligent House and Control Lab. See the chart on the right.

PROCESS

A computer program recognizes the signal and executes commands.

INPUT

The light sensor detects that the beam has been broken and sends a signal to the computer.

OUTPUT

The motor is turned on to open the garage door.

Components of LEGO Dacta Control Technology



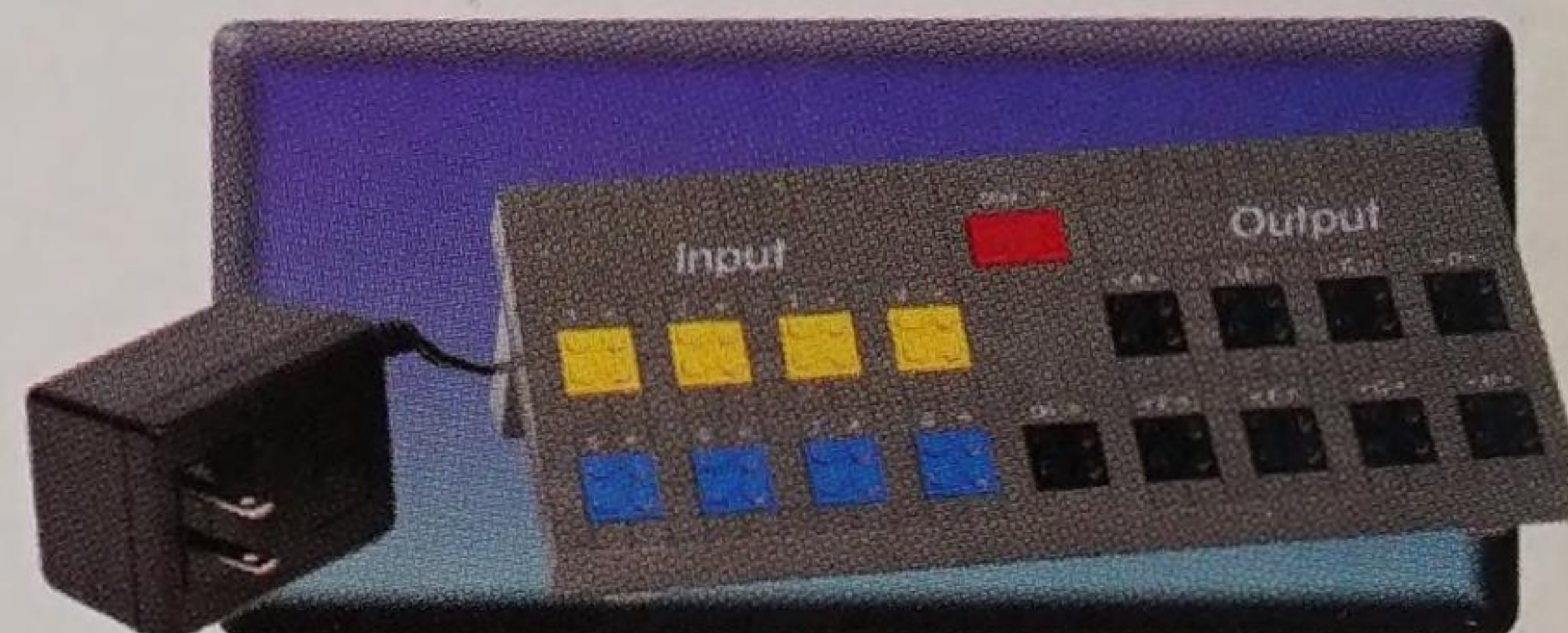
Computer

You supply the computer. LEGO Dacta Control products are available for both Macintosh and PC systems.



Software

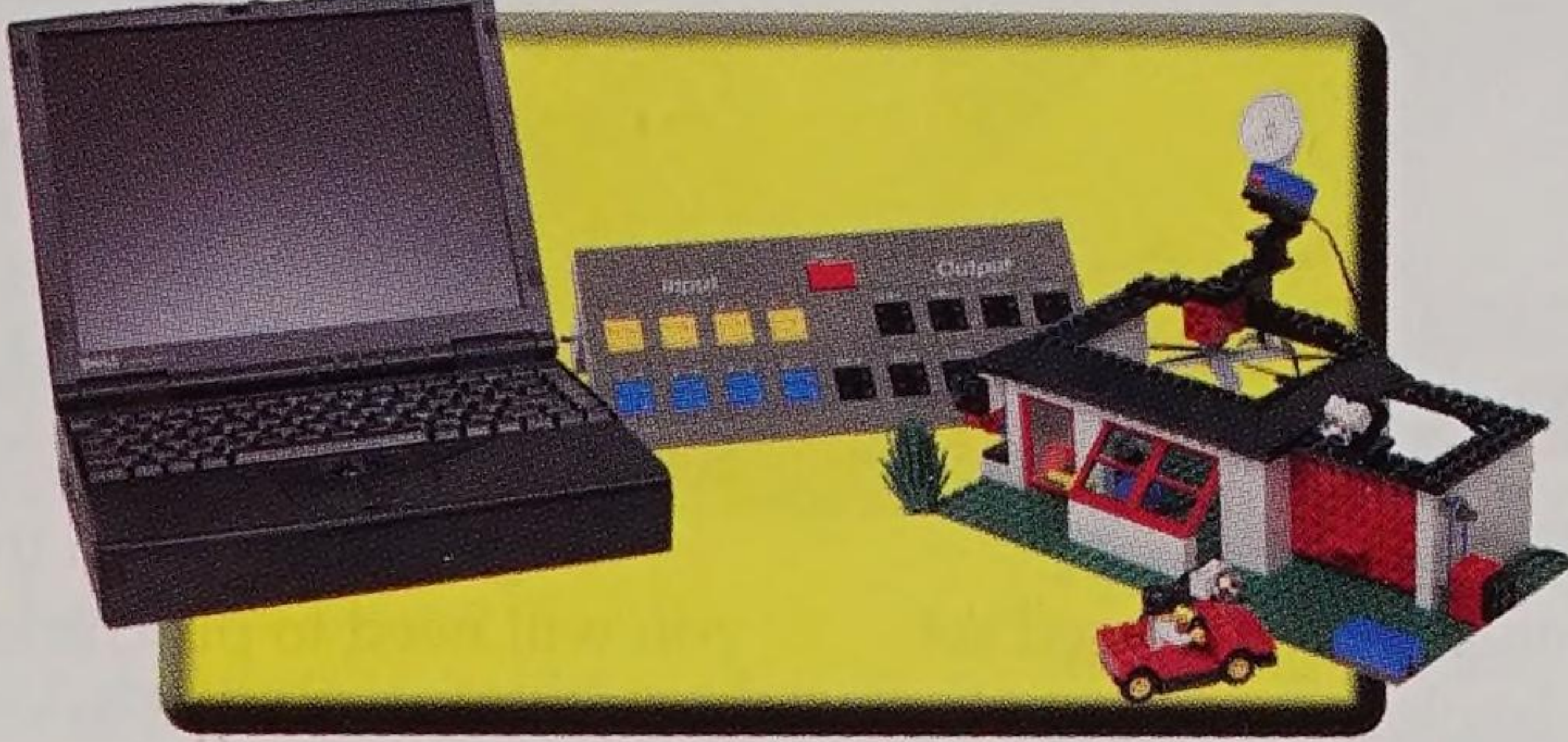

A user-friendly software program allows students to interact with models and write programs to control them. Includes a special, easily-learned version of the Logo programming language.



Interface

It's called the Serial Interface Box, and it links your computer to robotic models built from LEGO Dacta building elements. In other words, your computer controls the models through this interface.

LEGO Dacta Computer Control Products

Product		Subject	Grade
Intelligent House <i>(See page 82)</i>		Computer Applications	4th and Up
Control Lab <i>(See page 83)</i>		Technology and Robotics	7th and Up

System Requirements

	Macintosh	DOS	WINDOWS 95*
Processor	68030 or better	386 or better	486/66MHz
Graphics	256 colors/grays	EGA or better	VGA
RAM	4 MB	4 MB	8MB

*Also requires 3MB of free hard disk space and a sound card.



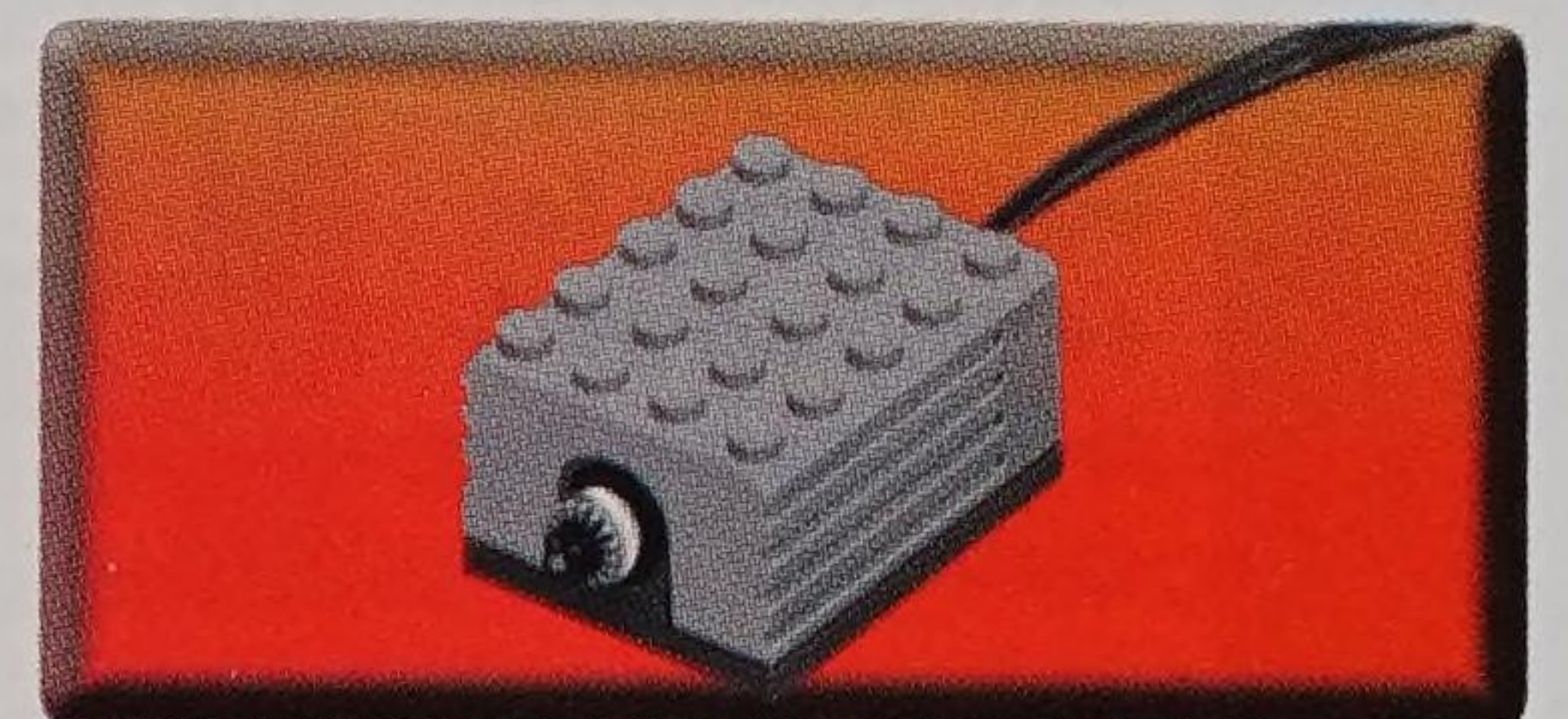
LEGO Dacta Building Set

It's all the parts and pieces you need to build the motorized models-LEGO elements include bricks, motors, gears, pulleys, wheels, axles, and more.



Sensors

These are input devices placed on the LEGO model that send data back to the computer. There are 4 types: light sensor, touch sensor, angle sensor, and temperature sensor.



Output

These are the devices that create movement, light, and sound on your LEGO model in response to computer commands. There are four different outputs: motor, micromotor, lamp, and sound element.

LEGO Technic

**LEGO DACTA INTELLIGENT HOUSE**

Intelligent House is an exciting computer interfaced set that simulates the use of advanced technology used in today's modern homes to increase the security and comfort of the inhabitants. Students build the Intelligent House model out of LEGO elements and then, through a series of exercises in computer control technology, they:

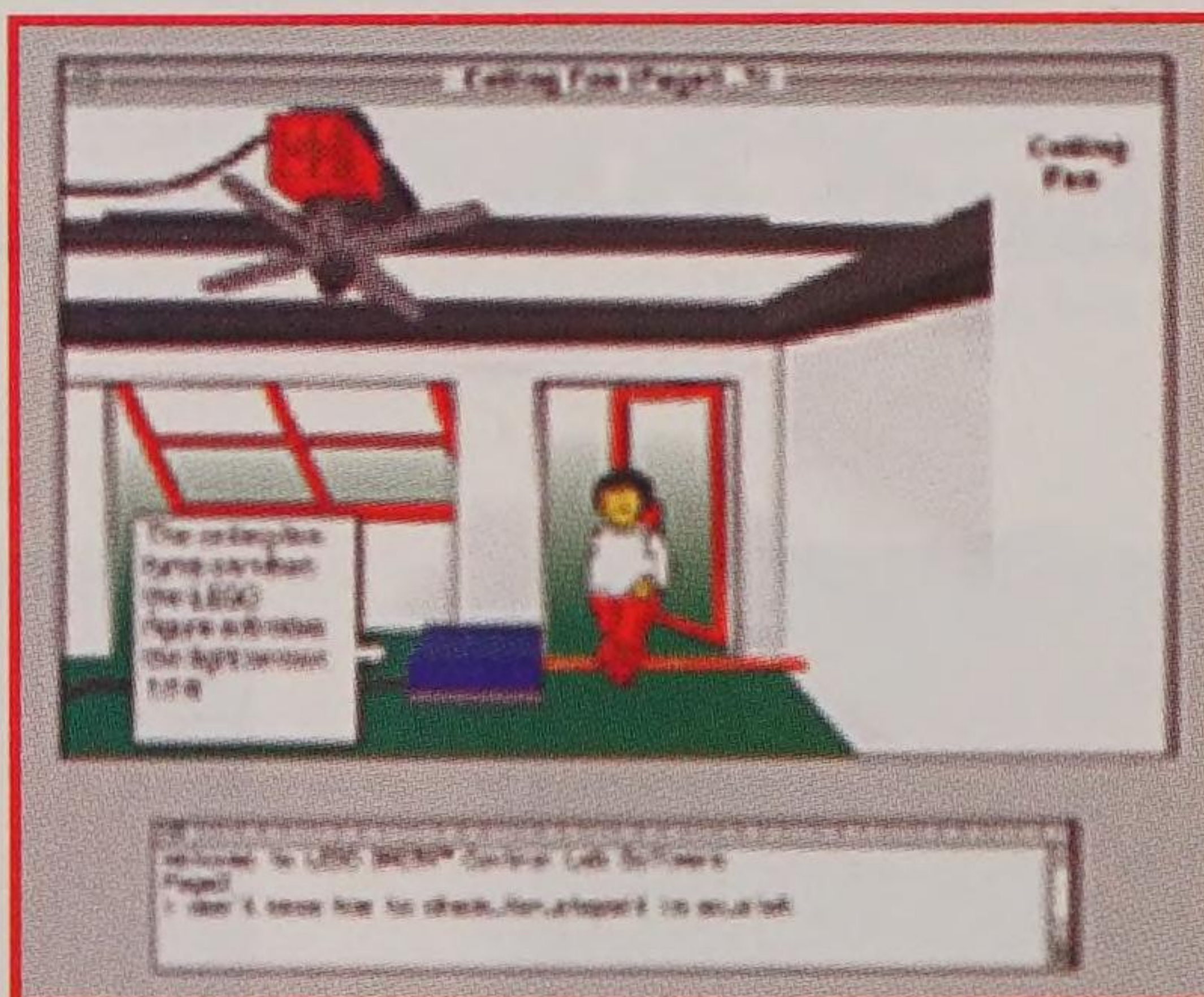
- Work with light, angle and temperature sensors
- Learn to control the input, process, and output of systems including an outdoor lamp, garage door, burglar alarm, door lock, ceiling fan, and satellite dish
- Use feedback from sensors to trigger output

Using Control Lab computer software, students can receive data from sensors placed in the house and control lighting, appliances and security system. By completing a series of programming activities, they learn to organize computer commands to control the model. For example, students are challenged to program the garage door to automatically open when the car passes between the lamp and light sensor. User-friendly Intelligent House Project software guides students through each activity.



Components are also available individually for setting up additional computer stations.

Professional staff development available in most states. Call for details. 1-800-362-4308



- N979707 Intelligent House Building Set—\$99.75**
- N979708 Intelligent House Activity Pack (MS-DOS)—\$39**
- N979710 Intelligent House Activity Pack (Mac)—\$39**
- N979751 Serial Interface & Adapter—\$253**
- N979769 Serial cable for Mac—\$28.75**
- N979768 Serial cable for PC—\$28.75**
- N979889 Temperature sensor—\$27.75**
- N979891 Angle sensor—\$27.75**

**INTELLIGENT HOUSE STARTER PACK**

To get started with the LEGO DACTA Intelligent House, you will need to purchase a Starter Pack which includes everything you need to set up one computer station. It includes:

- Intelligent House Building Set (#979707)—153 elements in snap-lid storage case with pictorial building booklet
- Temperature sensor (#979889)
- Angle sensor (#979891)
- Intelligent House Activity Pack (#979708/#979710)—project disk, teacher guide and quick reference guide
- Serial interface and adapter (#979751)
- Serial cable (#979768/#979769)
- Control Lab software (#979704/#979705)

N901303 Intelligent House Starter Pack (Mac)—\$530

N901304 Intelligent House Starter Pack (MS DOS)—\$530

SITE LICENSE

This site license covers Intelligent House, Control System, and Control Lab. You can utilize the software on a network or any number of stand-alone computers in your building.

N901305—\$138

If you already have Control Lab, you can save by purchasing the Intelligent House Upgrade Pack.

N901306 Intelligent House Upgrade Pack (Mac)—\$138.75

N901307 Intelligent House Upgrade Pack (PC)—\$138.75

PITSCO

INNOVATIVE EDUCATION

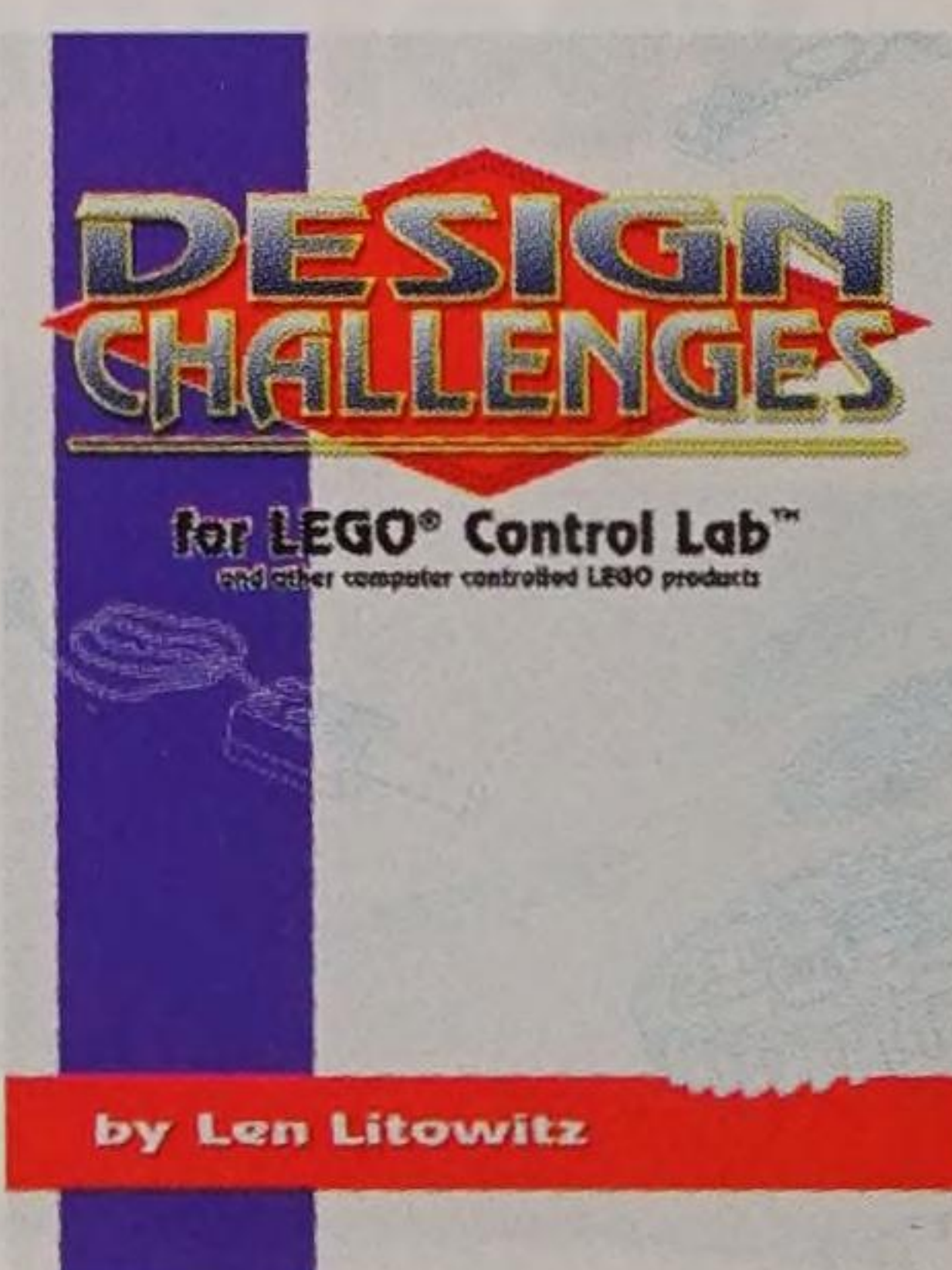
EXCLUSIVE**DESIGN CHALLENGES FOR LEGO DACTA CONTROL LAB**

So your students have had a great hands-on learning experience with LEGO Control Lab activities? Great! But don't stop there!

This book contains a series of copymaster design briefs written specifically for use with the LEGO Dacta Control Lab set. Design challenges are all open-ended, with problem, background information and design criteria. Each design brief has hundreds of potential solutions, so student creativity will be challenged. Also includes evaluation tips and helpful suggestions for your own problem-solving activities. Requires previous experience with LOGO programming. Paperback, 22 pages.

Teacher Resource and Activity Book

N990023—\$9.95



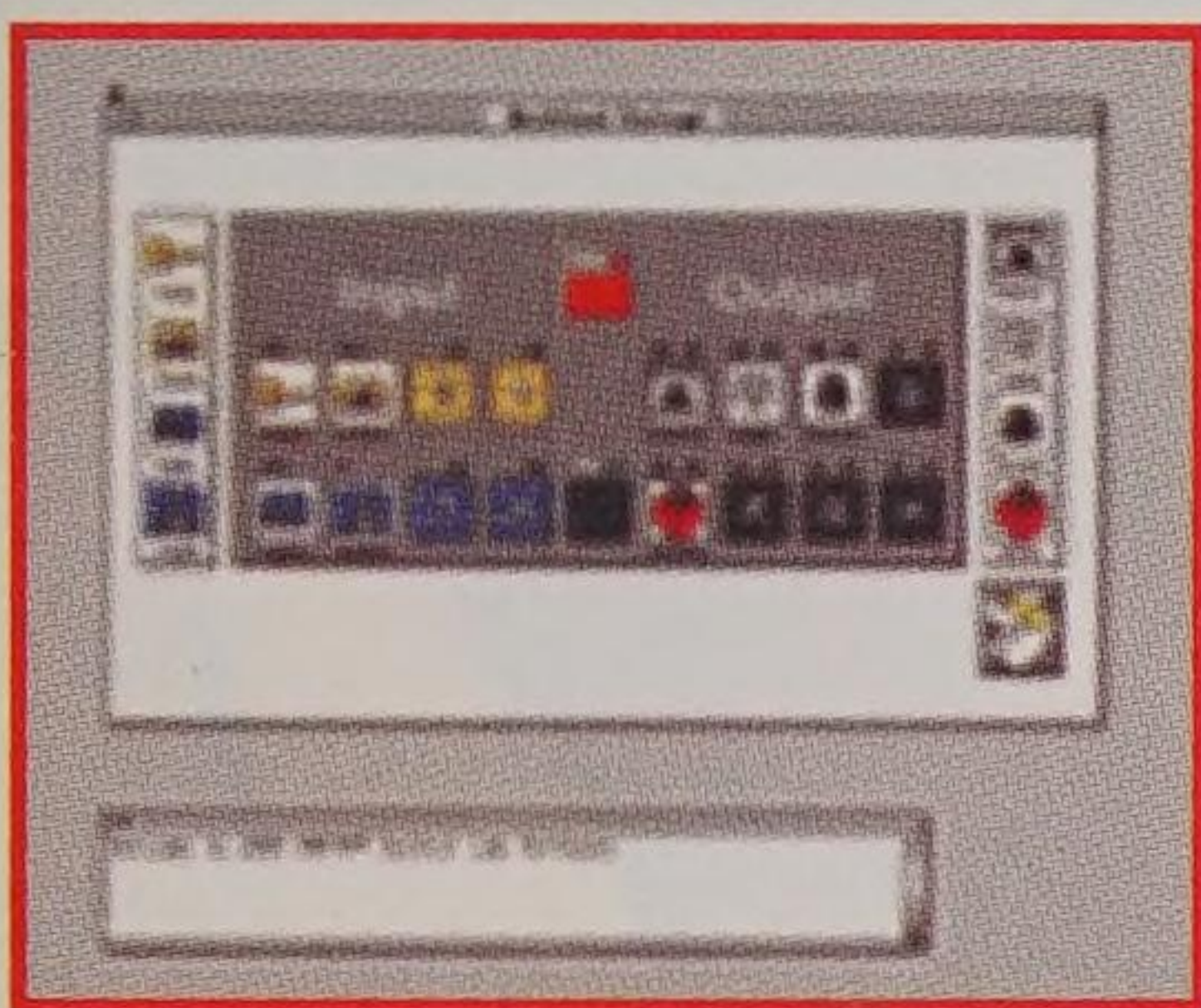
Fax Orders Free
1-888-534-6784



LEGO Technic

LEGO DACTA CONTROL LAB

With the LEGO DACTA Control Lab, students build models and control them using a computer. The emphasis of this kit is placed on technology and robotics. By engaging in challenging open-ended design activities, students discover important technology concepts. Step-by-step building cards can be followed or students can be challenged to design their own models.



SITE LICENSE #901305

License covers Intelligent House, Control System, and Control Lab. A site license allows you to use the software on a network or any number of stand-alone computers in your building.

N901305—\$138

Components are also available individually for setting up additional computer stations:

N979701 Control Lab Building Set—\$256.25

N979705 Control Lab Software (MS-DOS)—\$92

N979704 Control Lab Software (Mac)—\$92

N970998 Control Lab Curriculum Pack—\$83.50

If you already have Control Lab MS-DOS, you can upgrade to Win 95.

N909729 Control Lab Pack Win 95—\$34

N979751 Serial Interface & Adapter—\$253

N979769 Serial cable for Mac—\$28.75

N979768 Serial cable for PC—\$28.75

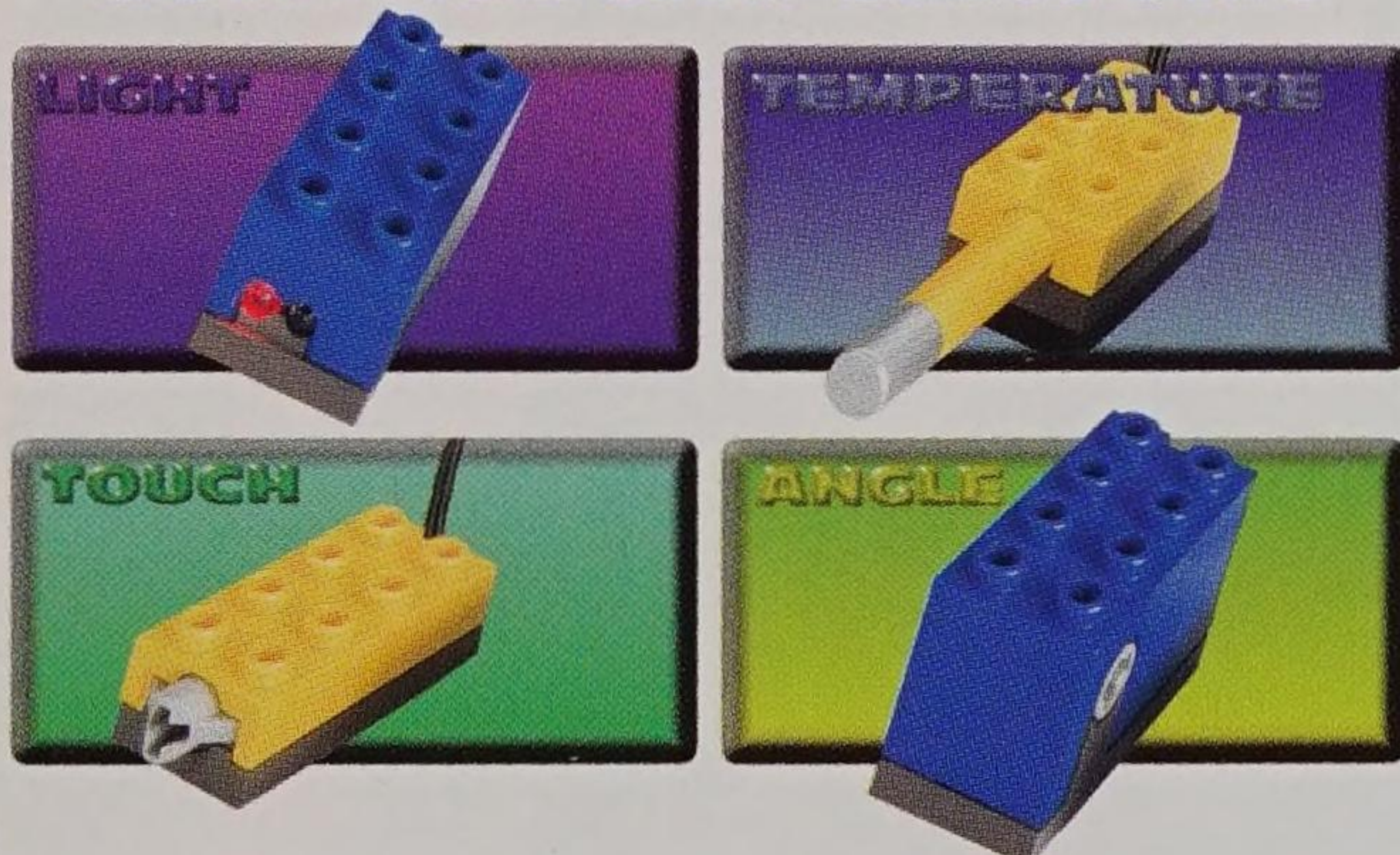
N979891 Angle Sensor—\$27.75

N979890 Light Sensor—\$27.75

LEGO DACTA Control Lab activities include:

- Robot Arm—Students problem-solve as they learn about manufacturing and the systems approach.
- Greenhouse—Students experience biotechnology as they design and build the greenhouse system.
- Other models include—an industrial robot arm, dynamometer, joystick-operated wheelchair, vending machine, scanner and conveyor.

CONTROL LAB SENSORS



CONTROL LAB STARTER PACK

EXCLUSIVE

The LEGO DACTA Control Lab is available in a Starter Pack that provides everything you need for one computer station. It includes:

- LEGO DACTA Control Building Lab Set (#979701) with 527 pieces, including motors, lamps, sensors, snap-lid case, and building instructions for 7 models
- Serial Interface and Transformer (#979751)—the computer controls the models through this interface.
- LEGO DACTA Control Lab Software (#979704/#979705)
- Serial Cable
- Control Lab Curriculum Pack (#970998) that includes: Setup Guide and Introductory Explorations, Quick Start Guide, Technology Investigations and Inventions, and the Reference Guide

N970942 Control Lab Starter Pack

(Macintosh)—\$695

N970943 Control Lab Starter Pack

(MS-DOS/Win 95)—\$695

TECHNIC CONTROL CENTER

#979752

The TECHNIC Control Center allows you to precisely control and even program LEGO DACTA models with motors, lamps or sound elements. Students can even store 2 programs in memory.

- Features 3 output ports; controls up to 3 functions
- Can be used as a pre-programming test station when used in conjunction with LEGO DACTA computer control materials
- Does not require a computer
- Requires 6 "C" batteries or AC adapter (#979833) (not included)

N979752 Technic Control Center—\$89

N979833 AC Adapter—\$18.75



EXCLUSIVE

TECHNOLOGY CONCEPTS

- communication
- construction
- biotechnology
- manufacturing
- transportation
- problem solving
- systems approach

SCIENCE CONCEPTS

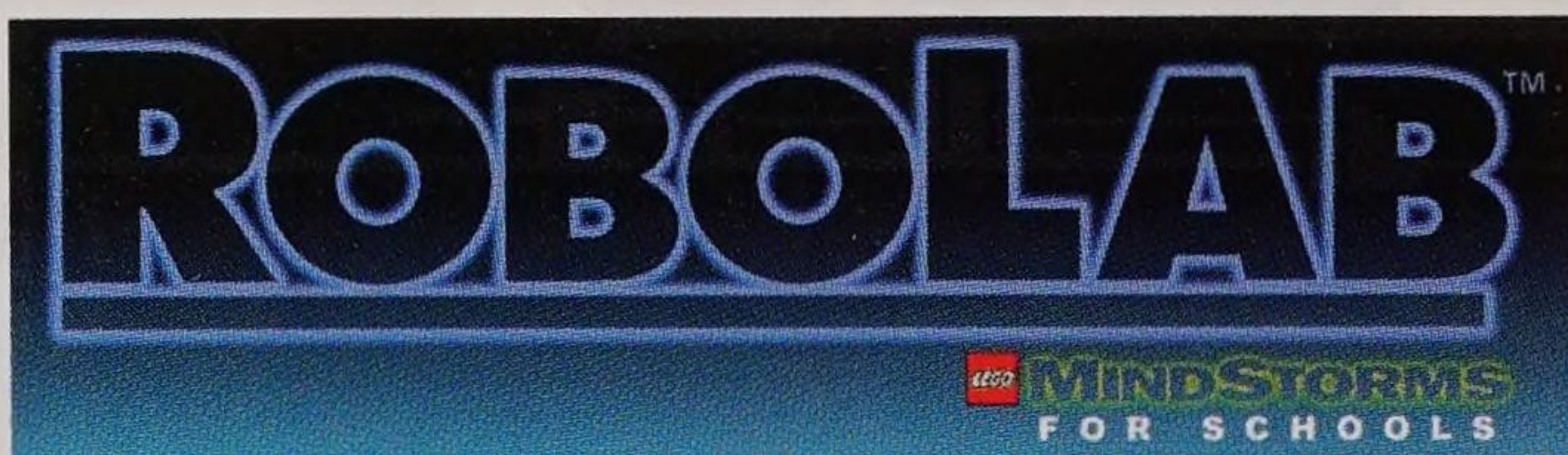
- average speed
- force
- work, power and energy
- electricity generation

MATH CONCEPTS

- computation
- estimation
- measurement
- graphing

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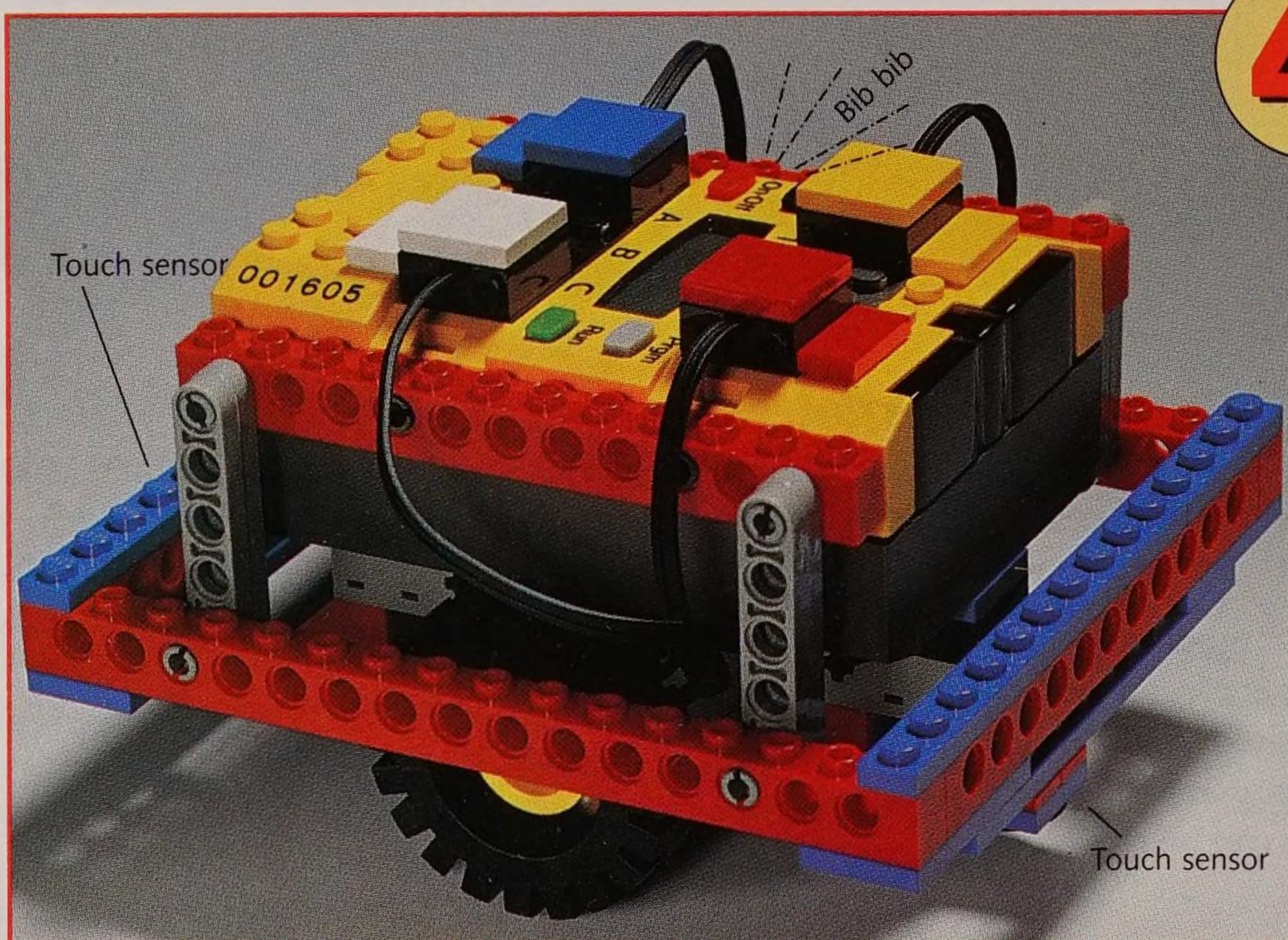
PITSCO **LEGO dacta**
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Mindstorms for Schools From LEGO Dacta

4 Easy Steps to Robotics

1. Build
2. Program
3. Download
4. Activate



Teach your students to use what talents they have; the woods would be silent if no bird sang except those that sing best.
Anonymous

Easy Steps to Robotics!

Using the amazing RCX programmable LEGO brick

1. Build

Students and teachers alike love robotics, but never before has there been such an easy way to bring this fascinating topic into the classroom. Robotic construction using Robolab is facilitated by using the familiar LEGO Dacta activity cards to construct a robotic model. This model is built around the RCX programmable LEGO brick used to control motors and lights, and to sense temperature, light, and touch.

Currently, two great building sets are specifically designed for use with the Robolab system: Robolab Starter Set and Amusement Park Set.

2. Program

While construction of LEGO models is consistent with student's previous activities with LEGO dacta sets, programming with Robolab is an entirely new adventure. And, it's a refreshing adventure as well.

Robolab software provides icon (or object) oriented programming designed to maximize features of the RCX brick, while providing an easy-to-use programming environment. Familiar drag and drop techniques highlight the software in two modes, 'Pilot' and 'Inventor'.

Students will learn to think logically, like a computer, as they program a series of events (or commands) for the RCX to carry out.

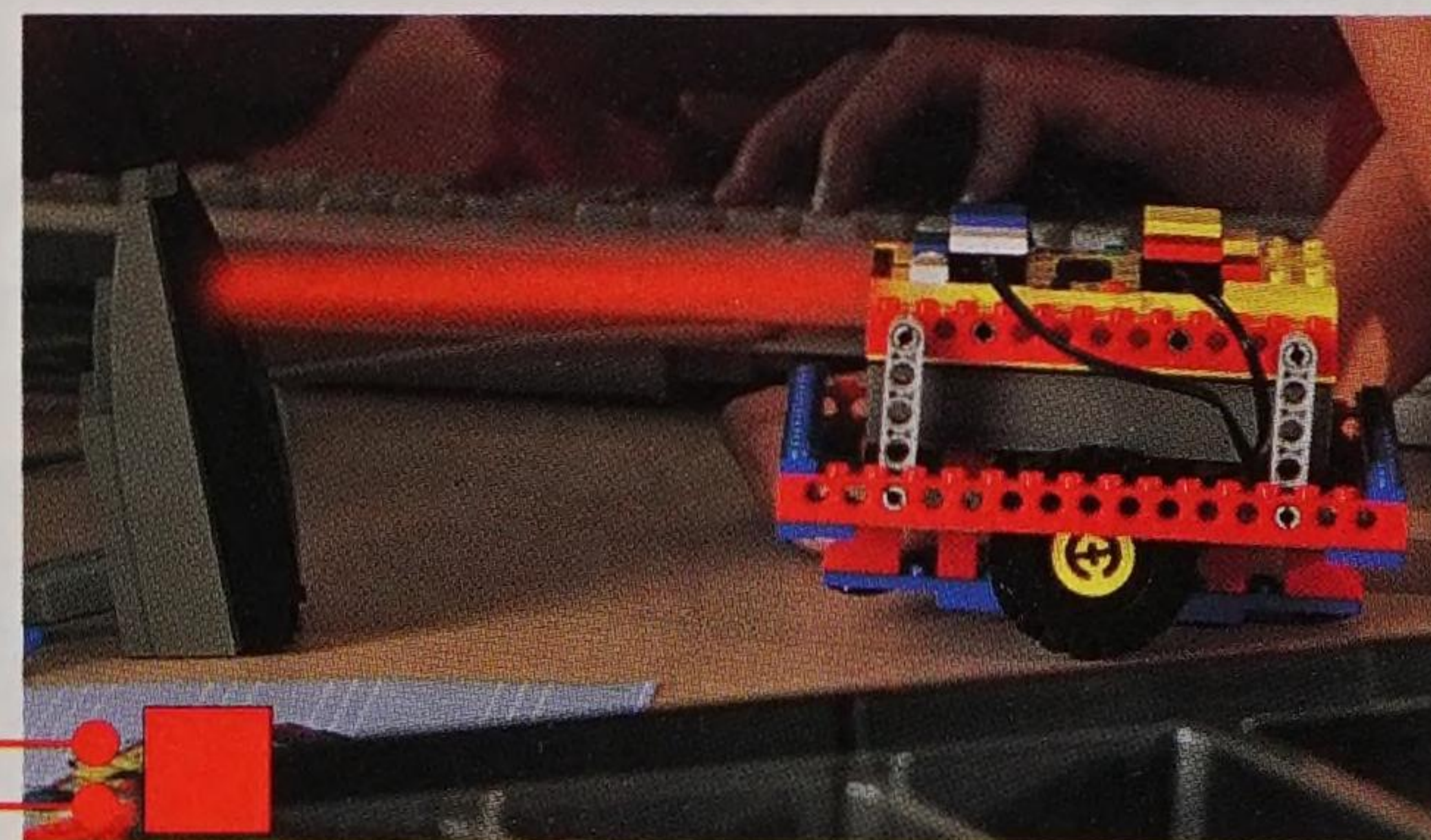
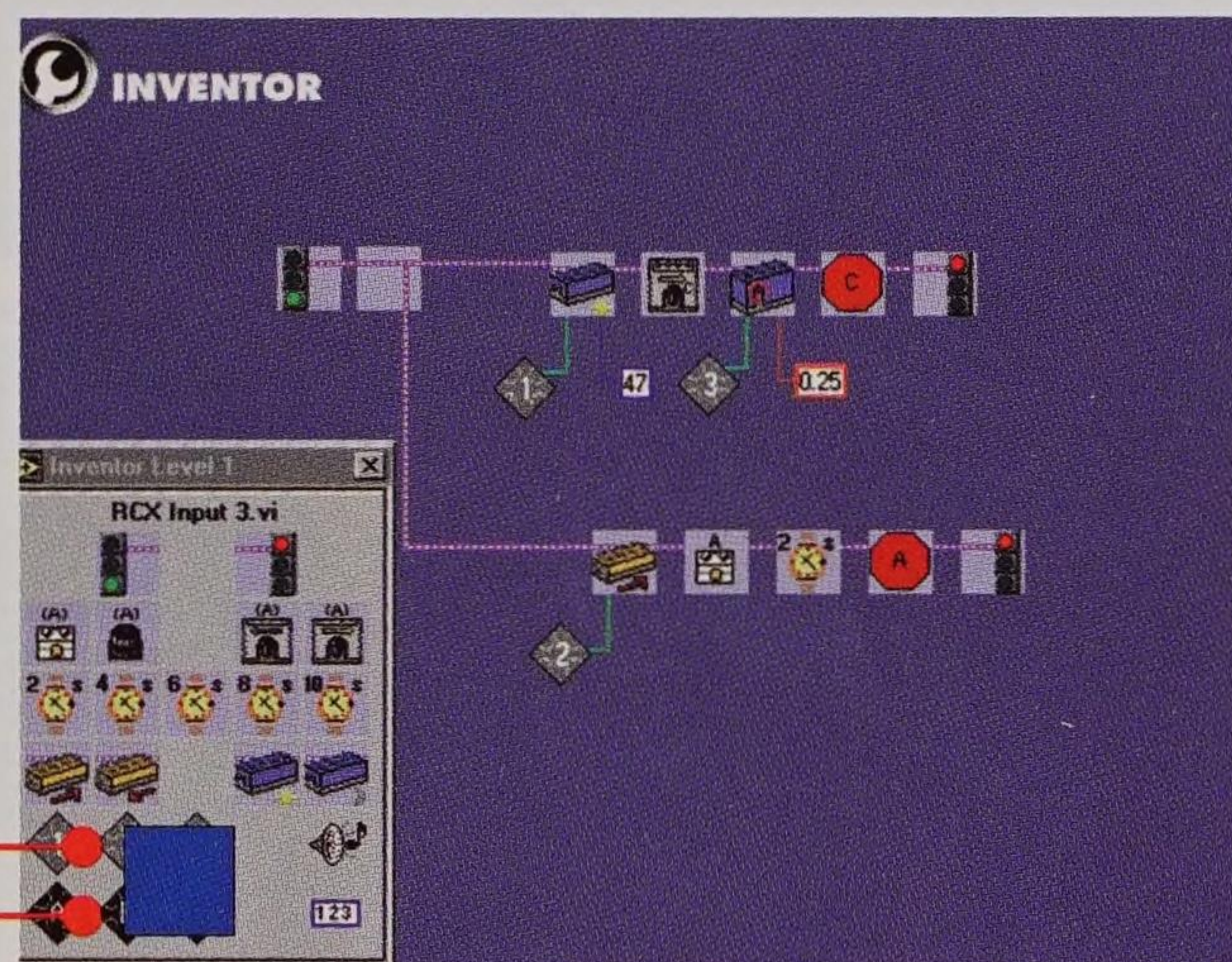
3. Download

Once the program is complete and ready for testing with the model, the program is 'beamed' by infrared to the RCX brick. The brick receives the transmission and stores it to run when activated.

4. Activate

The RCX brick is now loaded with the student's program and is ready. To start the program, the student simply presses the appropriate button on the RCX brick, and the model runs using the programmed information.

The robotics function can be repeated again and again by activating the program. Additionally, several programs can be stored in the memory of the RCX brick, and be selected and activated using the control buttons on the brick.



1. Build...

All Robolab building is created around the amazing RCX controller

In praising or loving a child, we love and praise not that which is, but that which we hope for.
Goethe

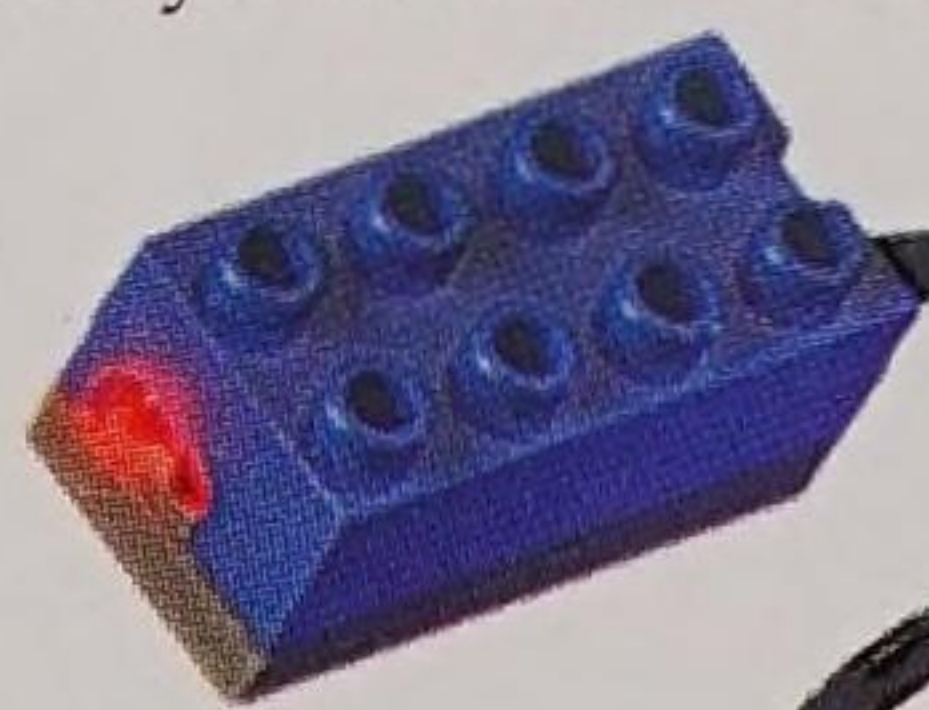
The RCX microcomputer is the heart of the Robolab system. It receives programs from the Robolab software (PC or Mac) via an infrared computer link, storing up to 5 programs at a time. The RCX then runs the programs when activated.

Up to 3 inputs can be used by the RCX to sense events in its environment, which in turn can determine what the 3 outputs will do to react to the sensing data.

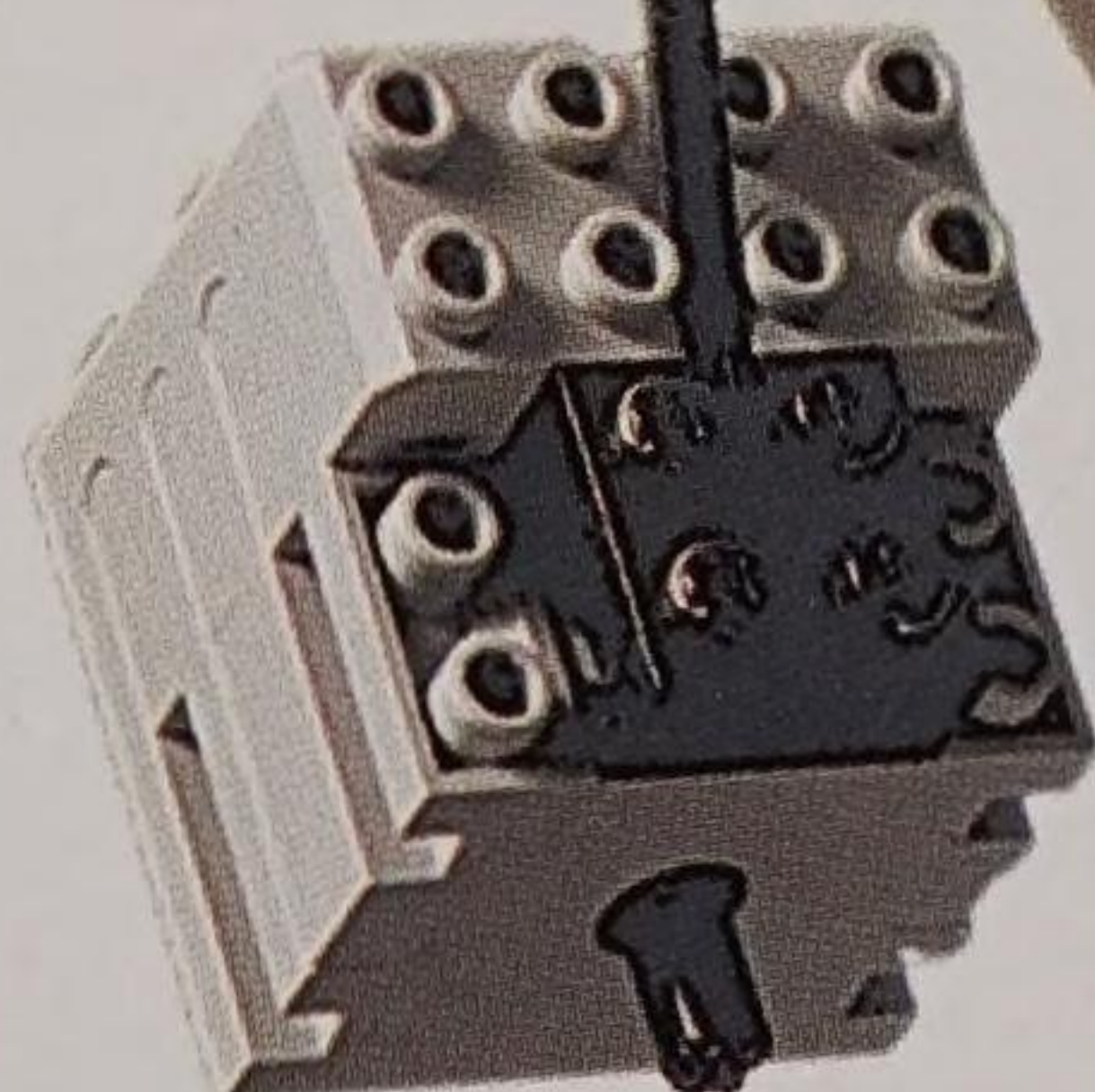
The RCX is great for modeling and experimenting with robotics, machines, vehicles, manufacturing systems, . . . anything that can be controlled using inputs and outputs!

Light Sensor

Senses amount of light present and relays data to the RCX brick.



Touch Sensor
Acts as a switch to sense movement against it.



Motor
Uses the 9v output of the RCX brick to provide motion to models.



EXCLUSIVE

INFRARED TRANSMITTER AND CABLE PACK (PC AND MAC)

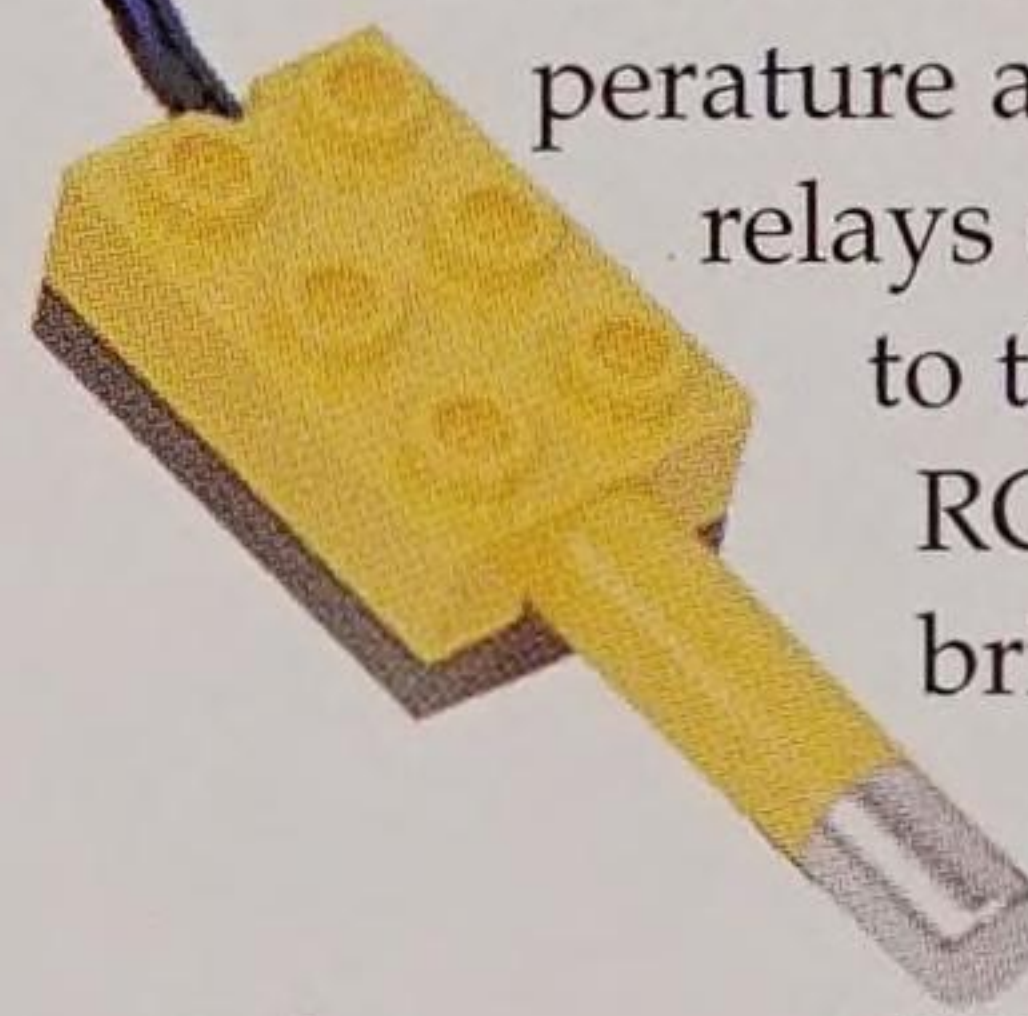
#979713

Connects to a serial COM port on the computer. Allows the user to download programs from a computer into the RCX. We recommend purchasing one per computer.

N979713—\$25

Temperature Sensor

Senses relative temperature and relays data to the RCX brick.



LIGHT SENSOR

N979890—\$27.75

TOUCH SENSOR AND LEADS (9 VOLT)

N779911—\$11

1 X 2 LAMP BRICK 9V (White) 2 pcs.

N970005—\$10

9V MOTOR W/GEAR REDUCTION

N775225—\$15.75

TEMPERATURE SENSOR

N979889—\$27.75

MICROMOTOR

N775119—\$10



THE RCX, ROBOTICS

EXCLUSIVE

COMMAND SYSTEM #979709

A programmable LEGO computer. Comes with 5 built-in programs. Use the RCX software to create and download new programs into the RCX memory.

N979709—\$120

ADAPTER #979833

EXCLUSIVE

(Optional. Not included in Workstation Pack). Allows the RCX to operate from a main power supply rather than from batteries. We recommend purchasing one per RCX.

N979833—\$18.75

"For the latest information check out our website @ www.pitsco-legodacta.com"

ROBOLAB Starter System

Your entryway into the world of robotics! **New!**



THE ROBOLAB STARTER SYSTEM #990084

The Robolab Starter System contains everything that you need to turn your classroom into a robotic design laboratory. This system is designed to be implemented within your classroom:

- Designed for four groups each with two to three students per group
- Teaching approach and student progressions are detailed for each group
- Activities build upon previously learned concepts as students explore and apply basic robotic fundamentals in a variety of configurations
- Includes a very diverse set of models and activities that will capture the interest of ALL students
- Access to many motors, lights, sensors and resource bricks for student innovations in robotics
- Complete matrix of storage, colors, and sorting supports quick and manageable class room use

Not only is the Robolab Starter System easy for you to get started with, it provides a wealth of engaging, hands-on, problem-solving activities to get students motivated about robotics, and more importantly about learning. Learning in this environment is spelled F-U-N!

ROBOLAB STARTER SYSTEM #990084

- (1) 979780 ROBOLAB Starter Set
- (4) 979709 RCX Bricks
- (4) 979713 Infrared Transmitter and Cable Pack
- (1) 900060 ROBOLAB Software and Site License
- (1) 900041 Robotic Concept Guide
- (1) 900052 Robolab CD User's Guide
- (1) 909780 Activity Pack for #979780

N990084—\$980



"Look for exciting new products to enhance ROBOLAB throughout the year."



THE ROBOLAB STARTER SET #979780

The Robolab starter set includes four individual group sets and a large number of resource bricks. Each group set will build a different model which has 4 different levels/challenges built in! The elements for each group set has its own sorting tray and are color differentiated to make management quick and easy. Each group set requires an RCX, which is not included in the Robolab Starter Set.

Using motors and sensors from the group sets with the resource set you can also build a 5th model - the famous "Table Edge Finder" - also known as the Torbot!

THE ROBOLAB STARTER SET #979780

Contains more than 1600 elements, including:

- (3) gear motors
- (1) micro motor
- (4) light bricks
- (3) light sensors
- (4) touch sensors
- (14) wires (including two really long ones)
- (5) full color building instructions

ROBOLAB STARTER SET #979780

N979780—\$307

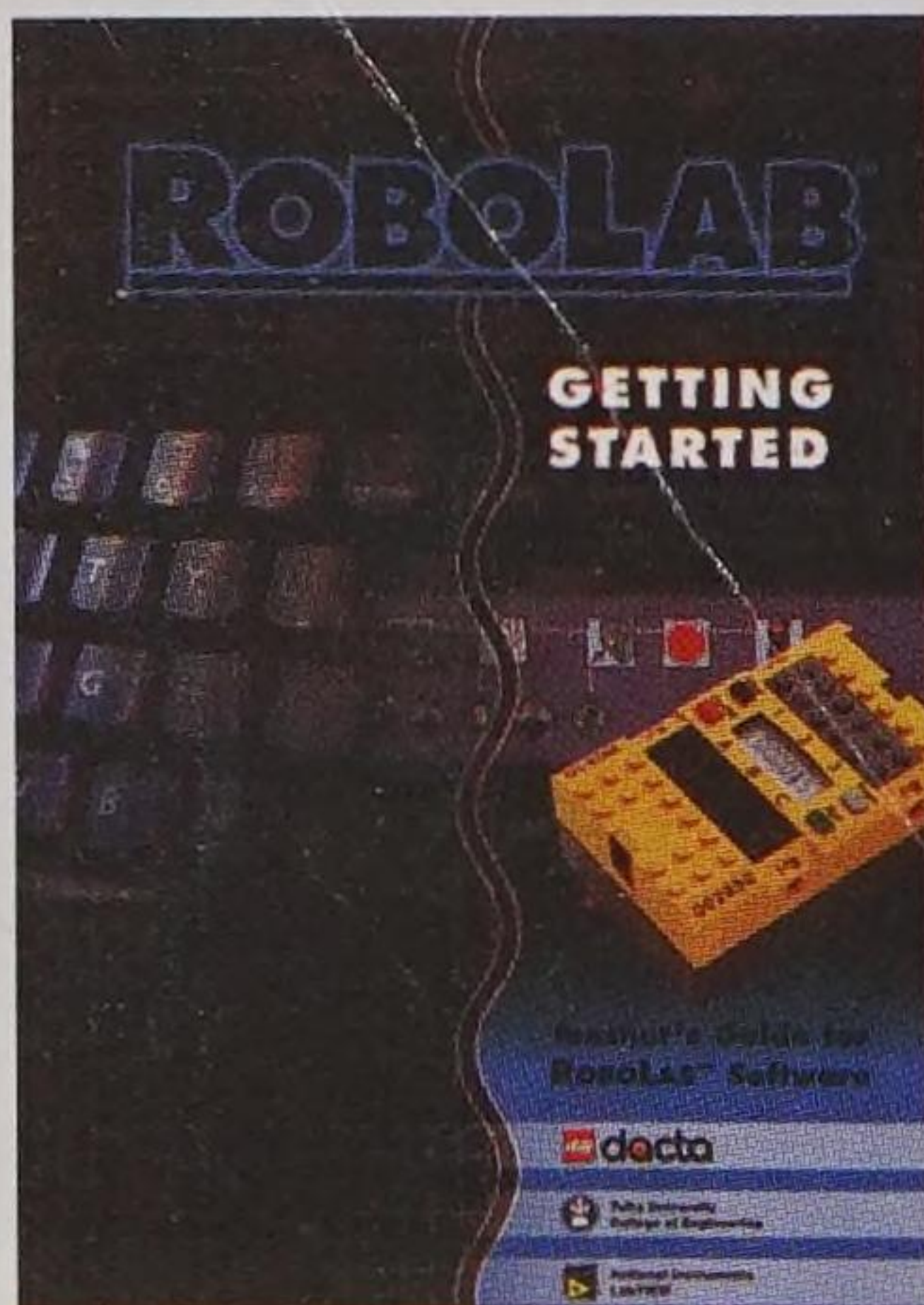
ROBOLAB ACTIVITY PACK

N909780—\$25



1. Build...

Use Robolab to control Amusement Park

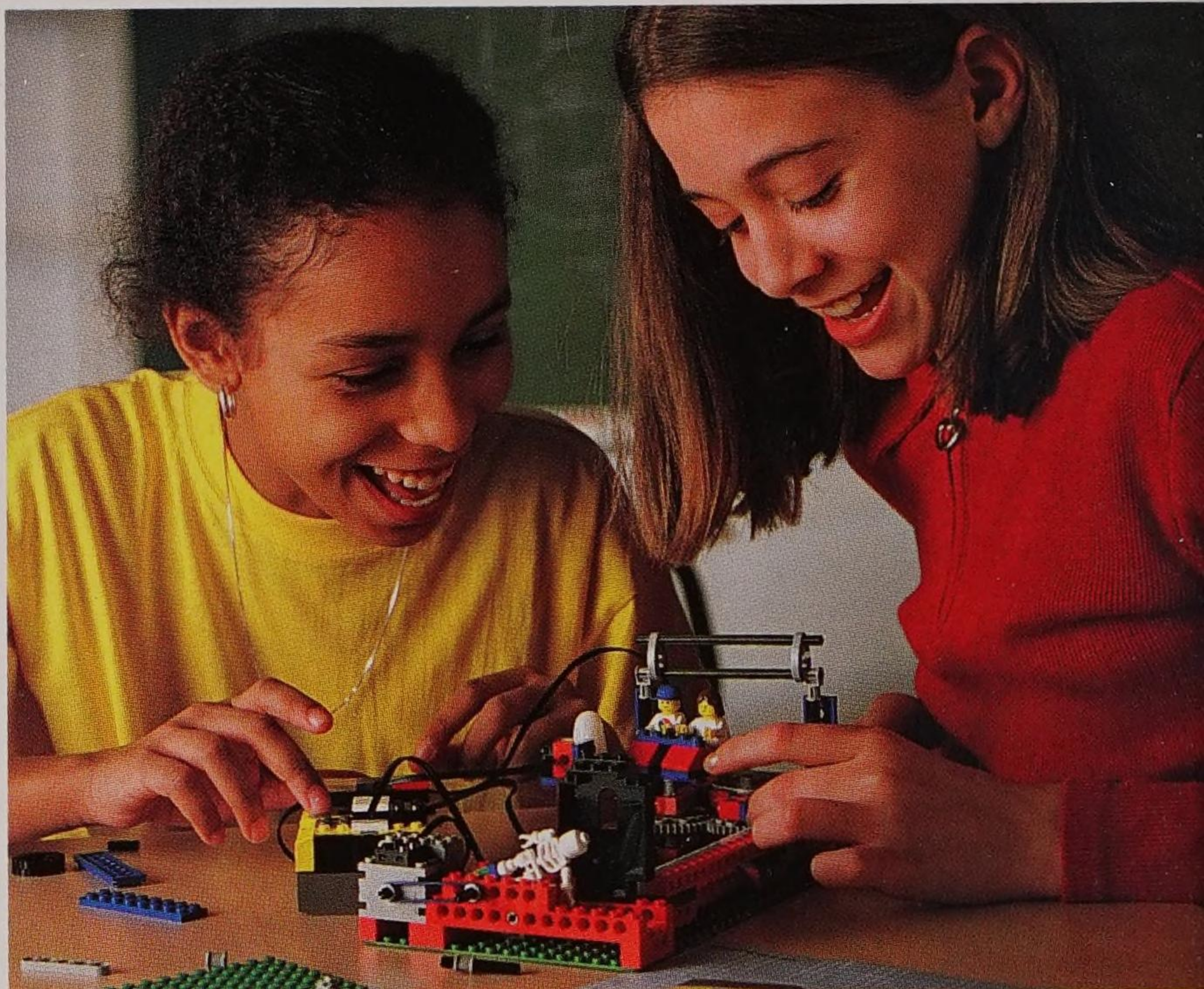


EXCLUSIVE

ROBOLAB CD USER GUIDE #900052

Introductory level manual with hardware and software support. Enables you to quickly get started with ROBOLAB.

N900052—\$25



EXCLUSIVE

LEGO DACTA AMUSEMENT PARK SET #979725

293 elements, including:

- (2) 9v motors
- (1) light sensor
- (2) touch sensors (without wires)
- (1) wires.

Other LEGO and LEGO TECHNIC pieces also include:

(4) full color building instructions for the following models:

- 2-motor line following tour bus
- 2-motor bumper car
- 1 and 2 motor haunted house ride
- 2-motor merry-go-round.

Stored in a plastic case with trays.

N979725—\$100

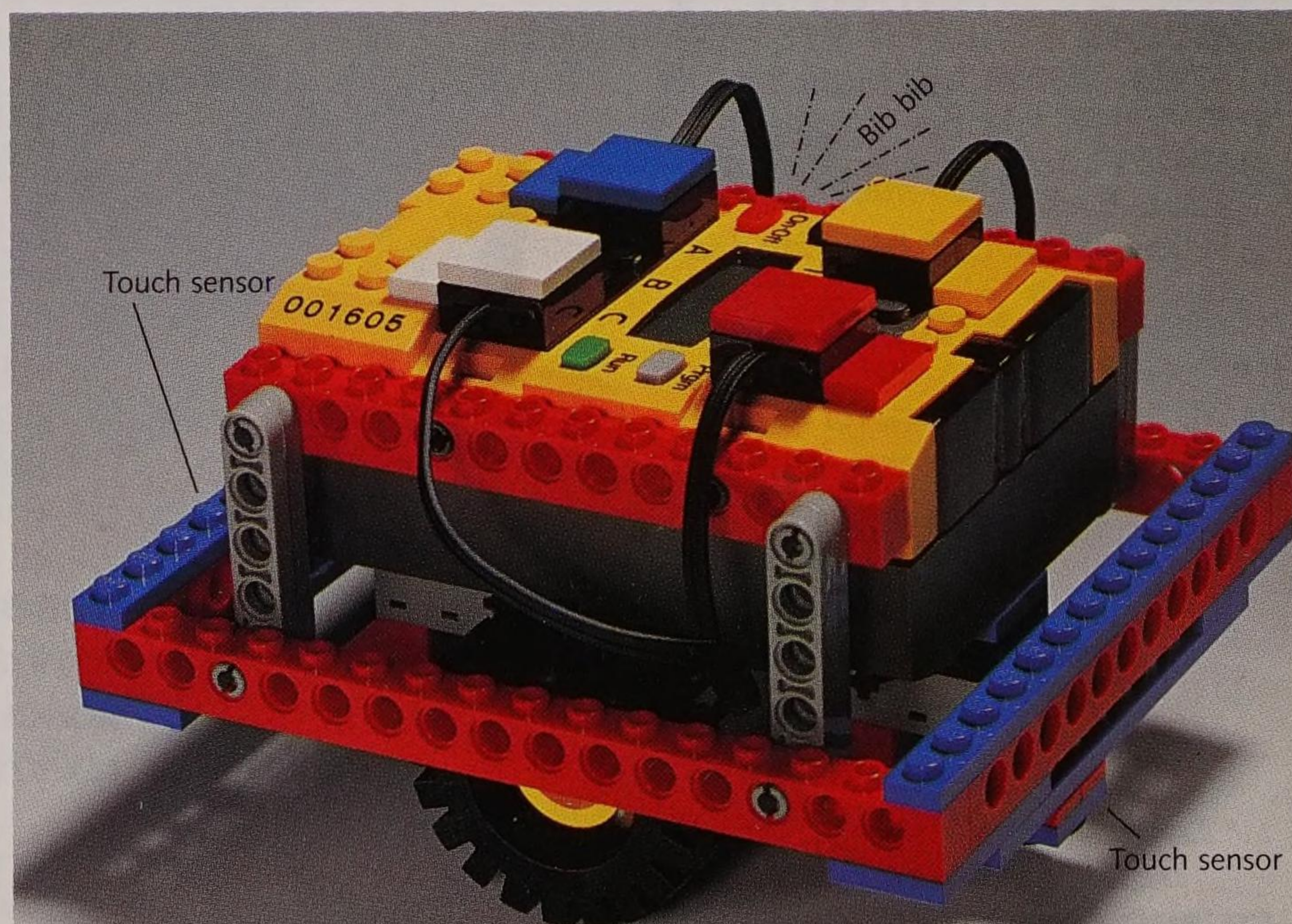
ACTIVITY PACK FOR AMUSEMENT PARK SET

N999725—\$25



Bumper Car

Program the two motors to make it move forward, backward and turn. Add the touch sensor to make it move when you press the sensor. Put the touch sensor and bumper together. Program the bumper car to move around and respond when it runs into something. Add beeps/sounds when the touch sensor is pressed.



1. Build...With MINDSTORMS

LEGO MINDSTORMS BRINGS THE POWER OF ROBOTICS TO STUDENTS

LEGO MINDSTORMS ROBOTICS INVENTION SYSTEM SET #979719

The unlimited design possibilities already available with LEGO bricks are now extended into the world of computers. Through design, construction and programming of individually invented robotic models the students become active masters of technology.

LEGO Mindstorms allows students to build and program robotic inventions that move, act and by some definitions - think - on their own.

Note: The software in this package is not Robolab Software

SET INCLUDES:

- (1) RCX Microcomputer™
- (1) CD-ROM Software
- 727 pieces, including:
- (2) Motors
- (2) Touch Sensors
- (1) Light Sensor
- (12) Guided Challenges
- (1) Infrared Transmitter

N979719—\$219

MINIMUM REQUIREMENTS FOR YOUR PC: **SEE NOTE**

Operating System: Windows® 95

CPU: Pentium 90 Mhz

RAM: 16 MB

Available Hard Disk Space: 50 MB

Mouse: Windows® 95 Compatible

9-pin Serial Port

Sound: Sound Blaster 16™, Windows® 95

Compatible Sound Device

CD-ROM Speed: 4X

Video Display: VGA, 256 Colors

Modem: 28.8 KBPS (optional)

Internet Browser: Netscape Navigator

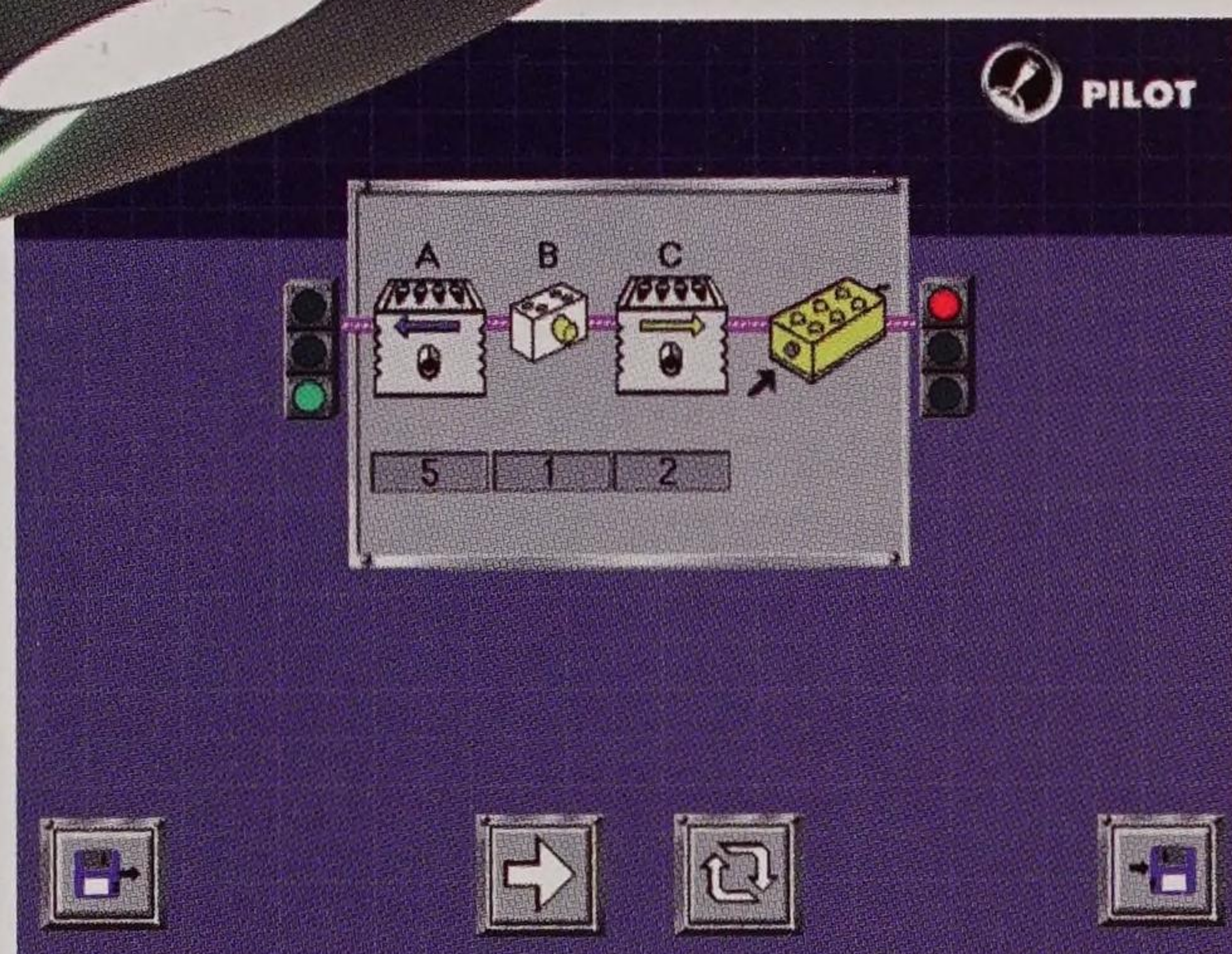
or Microsoft™

Internet Explorer



2. Program...

Use the easy interface to make your models do tricks



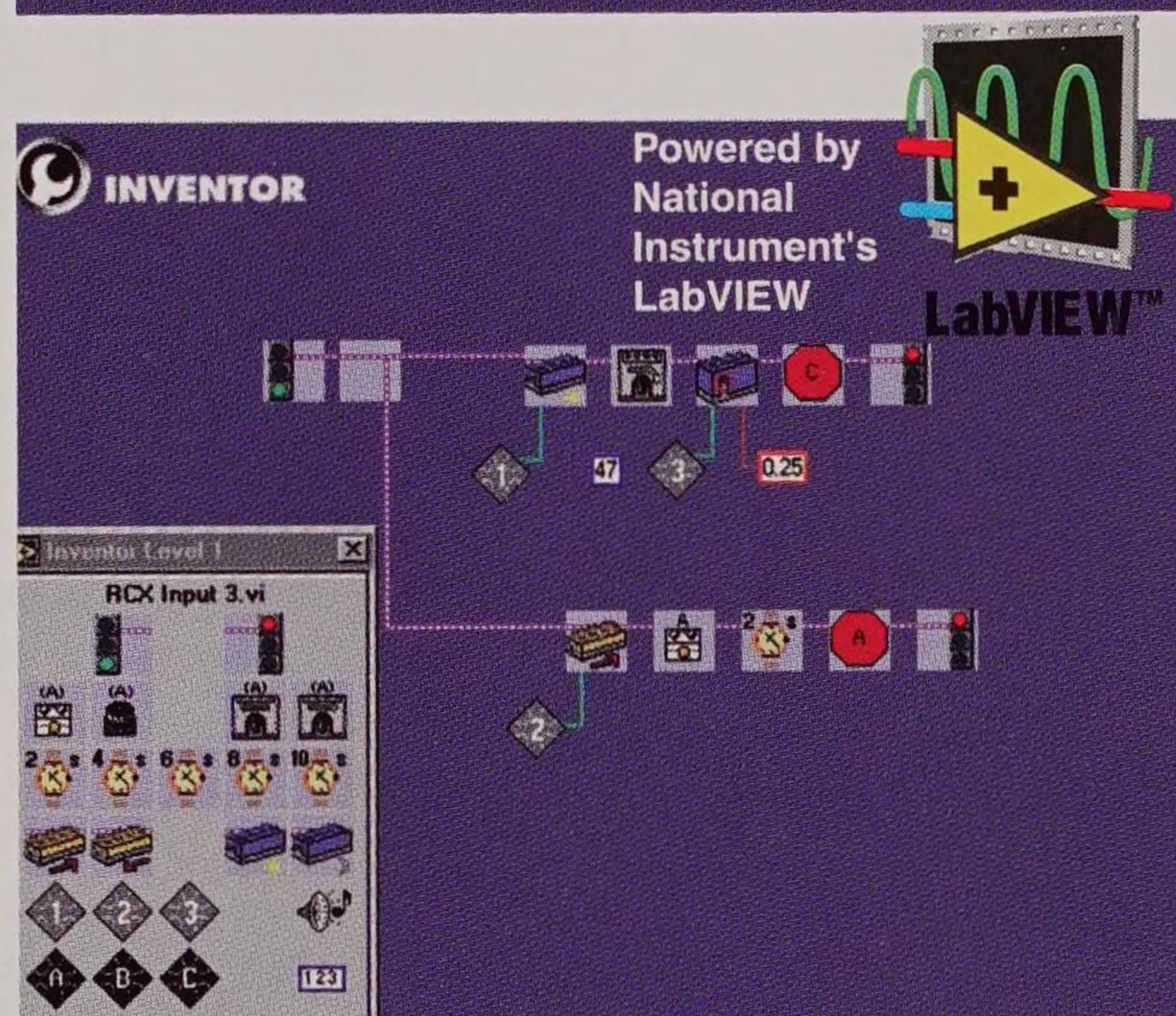
While construction of LEGO models is consistent with student's previous activities with LEGO dacta sets, programming with Robolab is an entirely new adventure. And, it's a refreshing adventure as well.

Robolab software provides icon (or object) oriented programming designed to maximize features of the RCX brick, while providing an easy-to-use programming environment. Familiar drag and drop techniques highlight the software in two modes, 'Pilot' and 'Inventor'.

Students will learn to think logically, like a computer, as they program a series of events (or commands) for the RCX to carry out.

The RCX Programming Language is delivered on the ROBO LAB CD and is divided into two phases.

Pilot
Click and Choose a series of command icons to control your RCX model or invention.



Inventor
Pick and Place command icons from the palette onto the program window. String them together to create your special customized program for your design.

The Curriculum support and software is developed in cooperation with TUFTs University, College of Engineering, Boston.

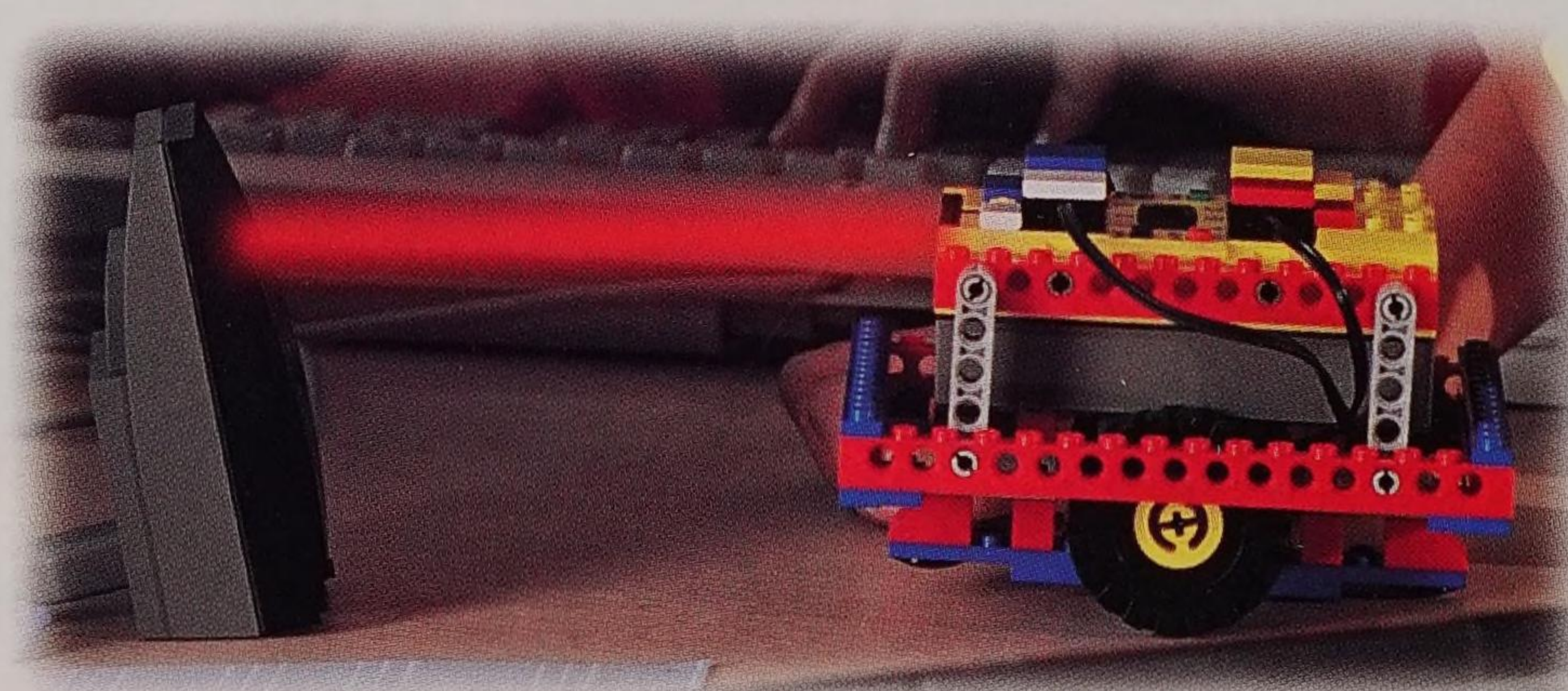
TUFT

3. Download...

Beam me over, Scotty!

Once the programming is complete and ready for testing with the model, the program is 'beamed' by infrared to the RCX brick. The brick receives the transmission and stores it to run when activated.

Up to 5 programs can be stored by the RCX at a time, and the programs are selected using the control buttons on the RCX brick.



Minimum System	Speed	RAM
PowerMac	60 MHz	16 Mb
Intel PC (i 486 dx)	25 MHz	16 Mb
Recommended System		
PowerMac	120 MHz	32 Mb
Intel PC (Pentium)	200 MHz	32 Mb

EXCLUSIVE

ROBO LAB SOFTWARE FOR RCX VERSION 1.0

New!

GREAT FOR THE TEACHER!

- Works on PCs and Macs alike
- Step-by-step progression is built into the software
- Effective and useful regardless of the student's age and ability level
- Students can learn to do their first programming in under two minutes
- Detailed on-line helpsystem @ www.lego.com/dacta/robolab which the students can use themselves
- Same powerful software for all ages and levels of ability
- Constantly builds on previously learned concepts
- Files not intended for students can be locked

GREAT FOR THE STUDENTS!

- No reading, no writing, no typing lines of programming code
- Quick and effective method to write, modify and download a program
- Many multitasking possibilities, sounds, feedback, help . . .
- Personalize the "look" of your program

Note: Robolab software is intended solely for use by educators.

ROBO LAB CD & USER'S GUIDE

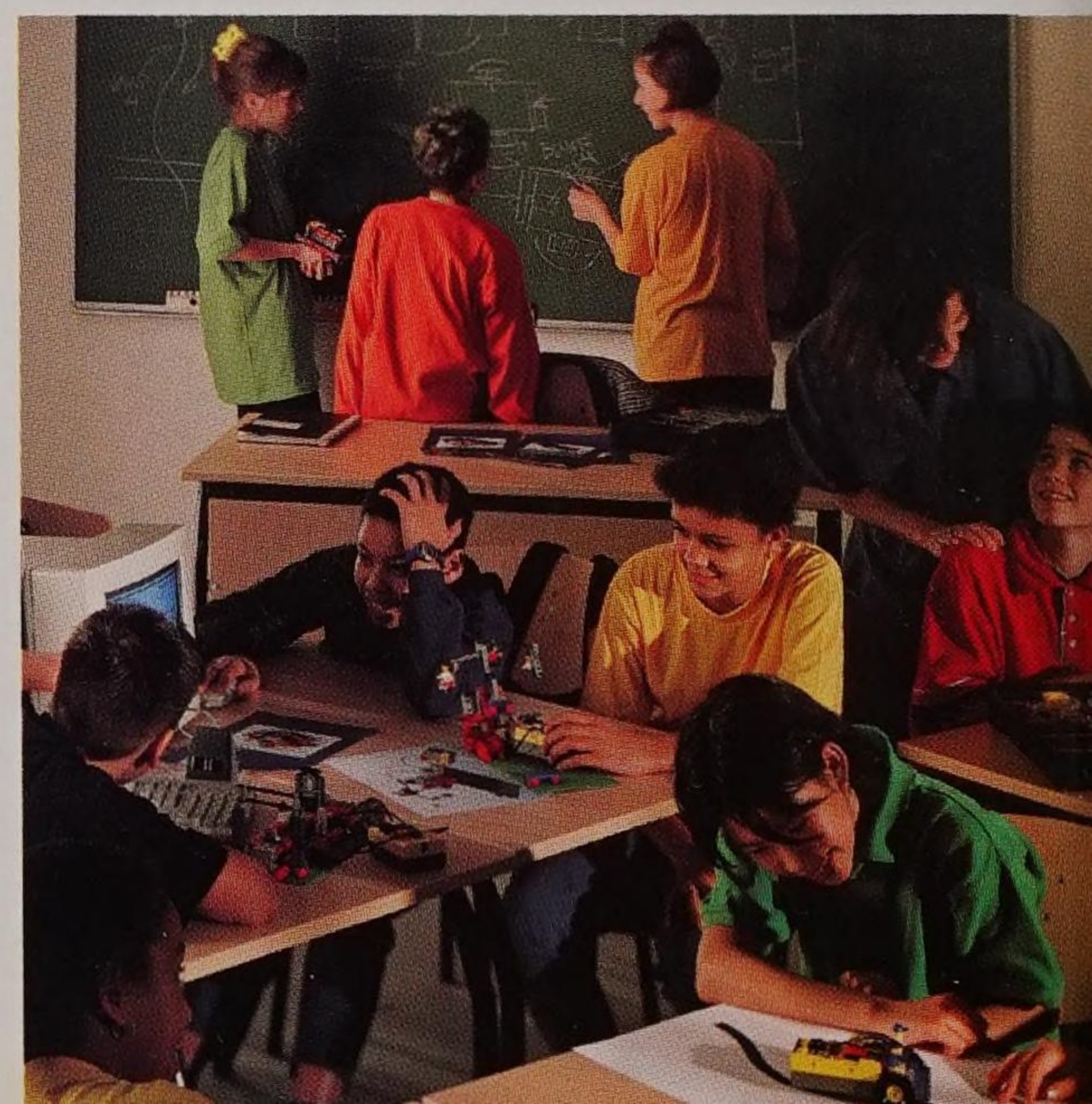
N990085—\$50

ROBO LAB CD (only)

N900050—\$25

ROBO LAB SOFTWARE & SITE LICENSE

900060—\$100



4. Activate...

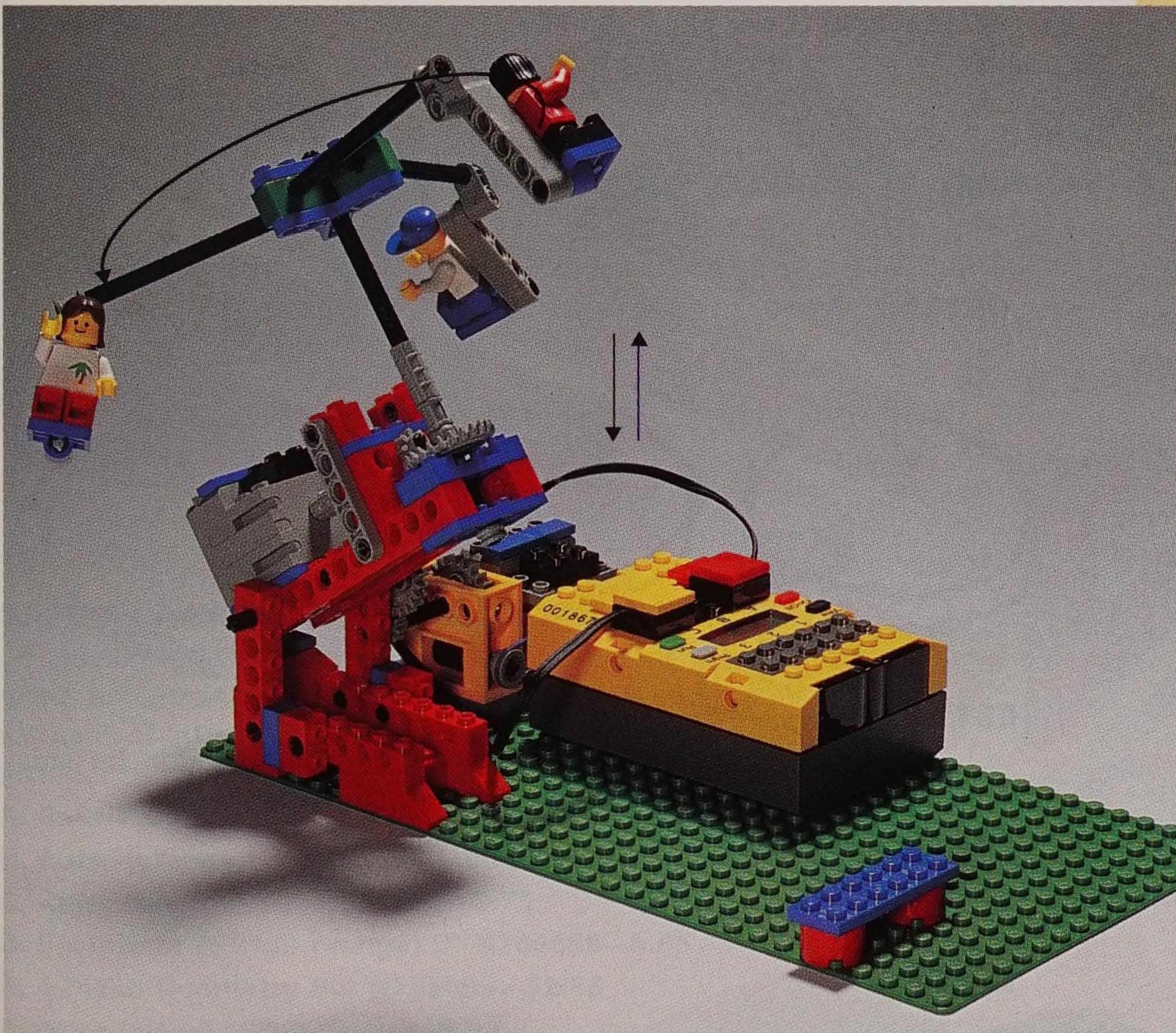
Become active with the world around you. NOW!

The RCX brick is now loaded with the student's program and is ready. To start the program, the student simply presses the appropriate button on the RCX brick, and the model runs using the programmed information.

The program can be repeated again and again by activating the program. Additionally, several programs can be stored in the memory of the RCX brick, and be selected and activated using the control buttons on the brick.



Students can draw from their own experiences to make models, or they can brainstorm (or Mindstorm in this case) new ideas for robots or machines that no one else has ever thought of or assembled. The ultimate in creativity!



MERRY-GO-ROUND

Program one motor to raise and lower the model. Program one motor to rotate the ride. Add the light sensor to see when the chair is in position for the guest to get on and off. Create a sequence of procedures to operate the whole ride (getting on, rotating, raising, lowering, getting off). Add the touch sensor to start the ride.

TOUR BUS

Program the motors to move at different speeds. Add the light sensor. Program the model to follow a line using the light sensor feedback.



Now Activate Your
Classroom With
ROBOLAB!
Call us toll-free for
suggestions to meet your
specific classroom needs.
1-800-362-4308



EXTRA MEASURES ELECTRONIC SCALE

New!

This economical electronic scale measures in both ounces and grams and is suitable for weighing objects up to 1 kilogram or 2 pounds, 3 ounces. The scale operates on four AA batteries only.

Resolution:

up to 500g @ 1-gram increments

500g - 1,000g @ 2-gram increments

up to 16 oz @ 0.25-oz increments

16-36 oz @ 0.5-oz increments

N756096—\$75



New!

EXTRA MEASURES METRIC CUBES

Kids can gain a better understanding of the metric system with Extra Measures Metric Cubes. The set has 1,000 plastic blocks measuring one cubic centimeter and weighing 1 gram each. There are 100 cubes of each of 10 different colors.

The interlocking cubes can be assembled to form a larger box that measures one cubic decimeter and weighs one kilogram. It's an excellent hands-on way for students to conceptualize the metric system, its units, and the powers of ten. We recommend that you use this product with a digital gram scale (not included).

N756097—\$23.50



X-LARGE YELLOW STORAGE BIN #779920

17" X 17" X 7.5"

N779920—\$14

LARGE RED STORAGE BIN #779921

17" X 17" X 4.5"

N779921—\$12

MEDIUM GREEN STORAGE BIN #779922

15" X 12" X 4.5"

N779922—\$7.25



NI-CAD BATTERY CHARGER AND RECHARGEABLE BATTERIES

This versatile charger will charge 5 different sizes of Ni-Cad batteries: AA, AAA, C, D, and 9V. The nickel-cadmium cells can be used in hundreds of devices in the place of throw-away alkaline cells. They can be charged and recharged over and over again, saving you hundreds of dollars in disposable batteries. Battery life will vary according to battery size, device and use. Works well with LEGO Dacta products—the new RCX Brick and Amusement Park Set uses 6AA cells and one 9V cell.

N712514 Battery Charger—\$17.50

N712515 AA cell (2 per pkg.)—\$5.75

N712516 C cell (2 per pkg.)—\$9.75

N712517 9V (1 per pkg.)—\$9.75

RED ELECTRICAL WIRE

New!

For general circuit connections. Insulated, 22 gauge, 10 ft lengths.

N756142—\$1.50



TEST LEADS

New!

Use these handy test leads for a variety of projects. Alligator clip ends ensure a positive connection. 24" long, 10 assorted colors.

N756197—\$6.50 PER PACK



MINI GOGGLES

New!

These smaller safety goggles are just right for elementary and middle school students.

N750903—\$4.95

10 for \$44.50



JERSEY GLOVES

New!

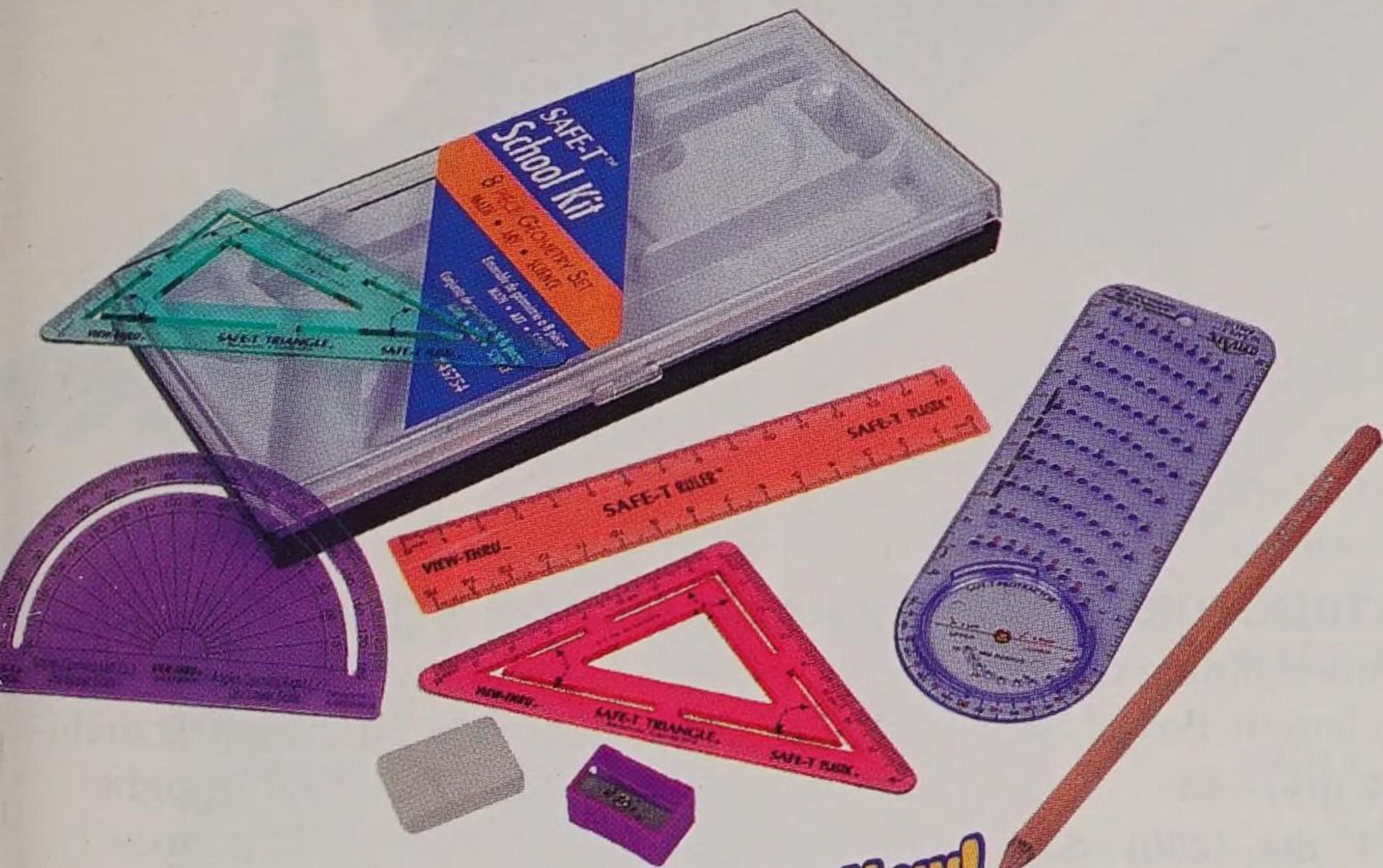
Knit jersey gloves with a snug knit wrist Great for students Ages 8 -10!

BLUE N756140—\$2.50

GREEN N756141—\$2.50

RED N756139—\$2.50

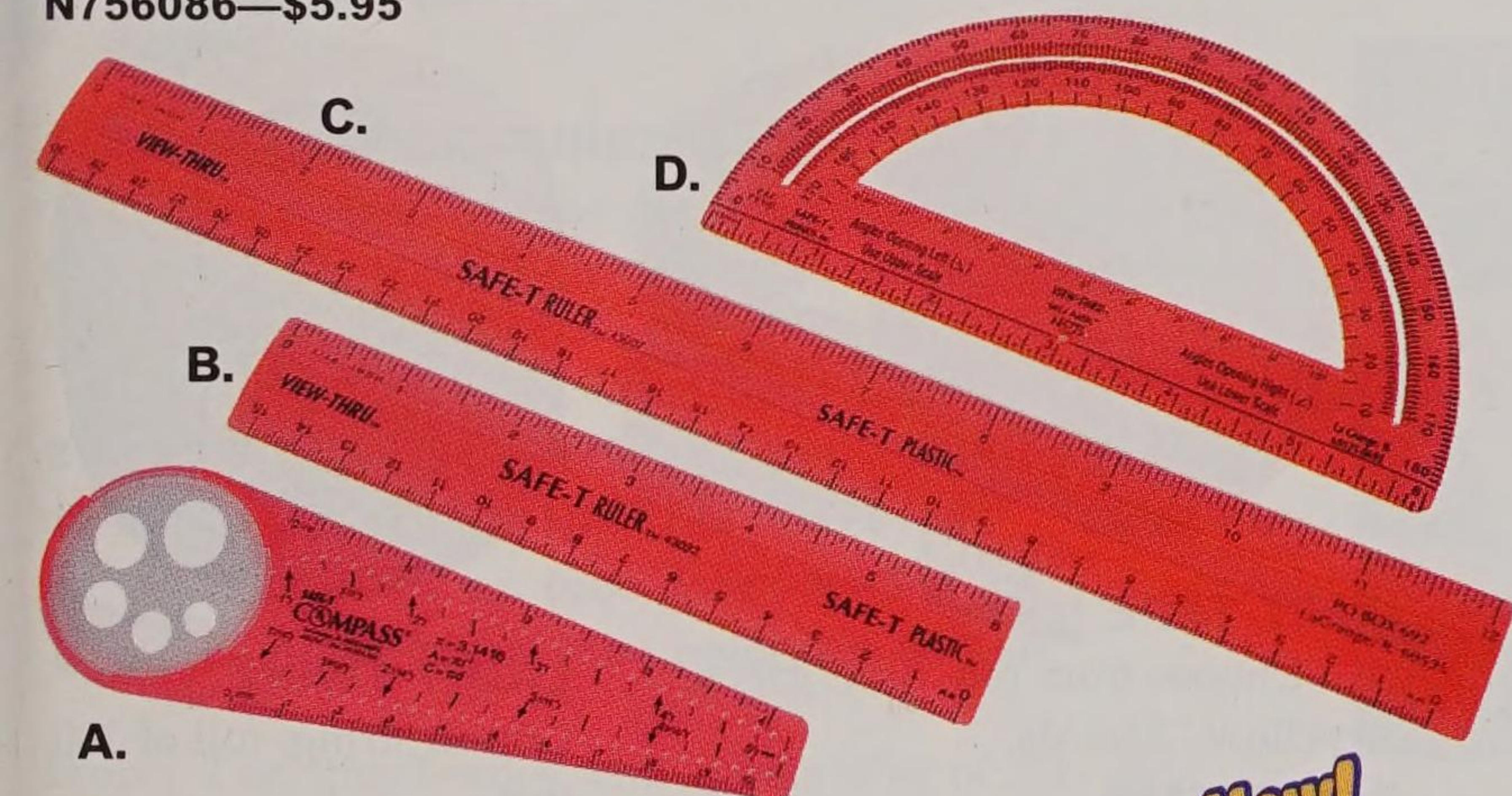
Fax Orders Free
1-888-534-6784



SAFE-T 8-PIECE GEOMETRY SET **New!**

One word comes to mind when you see this kit: *nifty*. That's because all of the compact drawing instruments are thoughtfully designed and fit securely into the dandy snap-lid storage case. The kit includes: a 15 cm ruler, protractor, 2 triangles, an mmArc Safe-T™ compass, pencil, eraser, and sharpener.

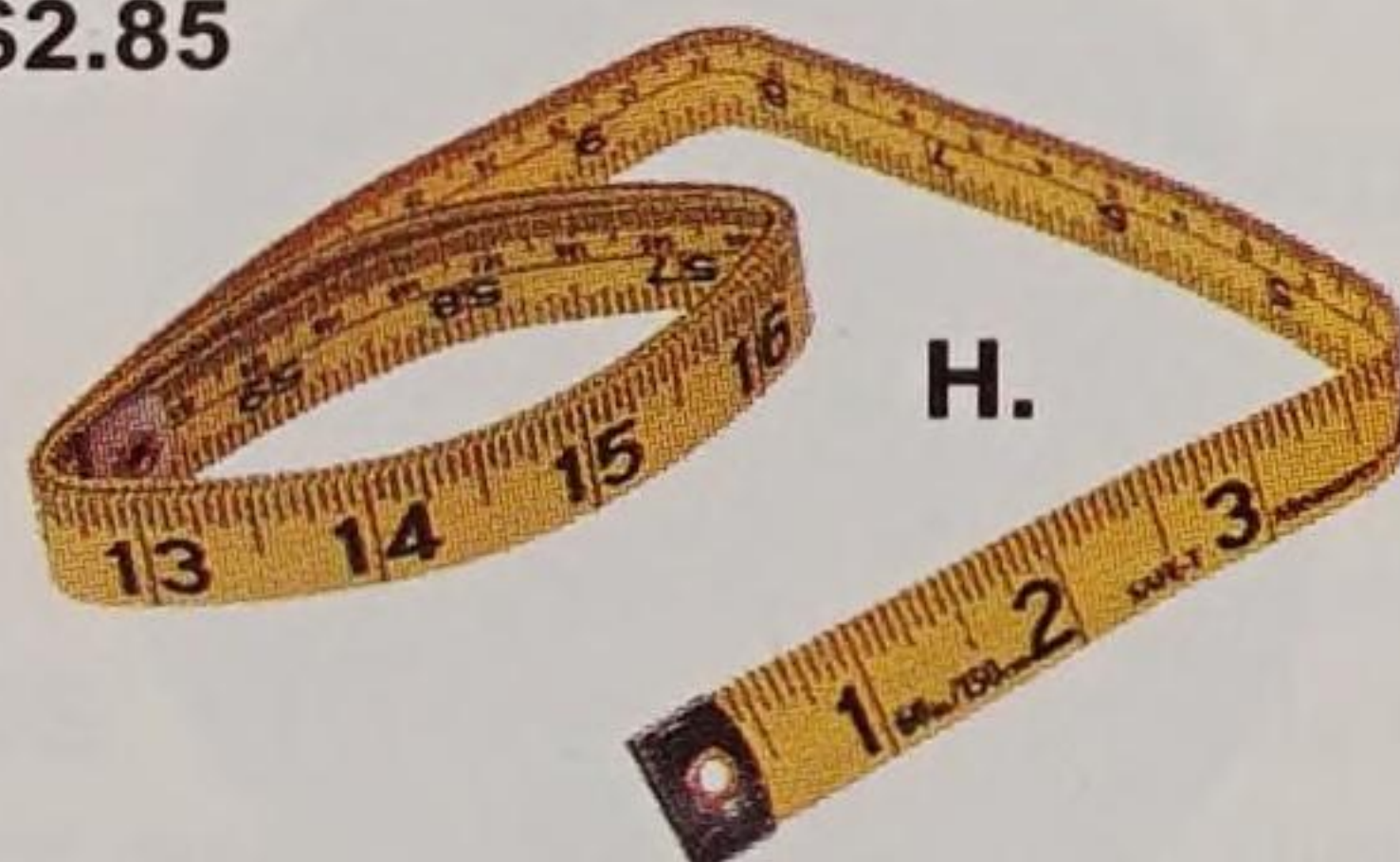
N756086—\$5.95



SAFE-T DRAWING AND MEASURING INSTRUMENTS **New!**

Ideal for classroom use! These pliable, translucent instruments are ultra-safe- they have no sharp points and are shatter resistant. They feature both English and metric units, so they're ideal for use in math, art, science, vocational, and early learning.

- A. Safe-T Compass N756090—\$1.10**
- B. Ruler (orange) 6" N756094—\$.50**
- C. Ruler (orange) 12" N756093—\$.75**
- D. Protractor (6"/180 orange) 6" N756089—\$.65**
- E. 4-Piece Geometry Set N756085—\$2.85**
- F. Ruler (clear) 12" N756092—\$.80**
- G. Pro Ruler N756088—\$3.25**
- H. Tape Measure N756087—\$.80**



SAFE-T COMPASS PLUS **New!**

The Compass Plus draws it all: circles, arcs, lines and angles with ease and ultimate precision. Features the Safe-T Compass action with no dangerous sharp points. Constructs circles from 2 to 24cm in diameter on 1mm radius increments. Straight edge sides have inch/metric scales to 4.75in./11cm.

N756091—\$2.30

CIRCLE PERFECT COMPASS **New!**

Finally, a compass that's safe and easy enough for younger students to operate, yet precise enough for the most demanding user. The Circle Perfect Compass firmly clamps in position to hold the desired radius setting. You can substitute the included pencil for another type of writing utensil, such as a felt tip marker. The stylus and pencil can be retracted into the shell for safe carrying. One compass draws circles up to 12"/15 cm in diameter, or you can connect two Circle Perfect Compasses to make larger circles.

N756084—\$1.95



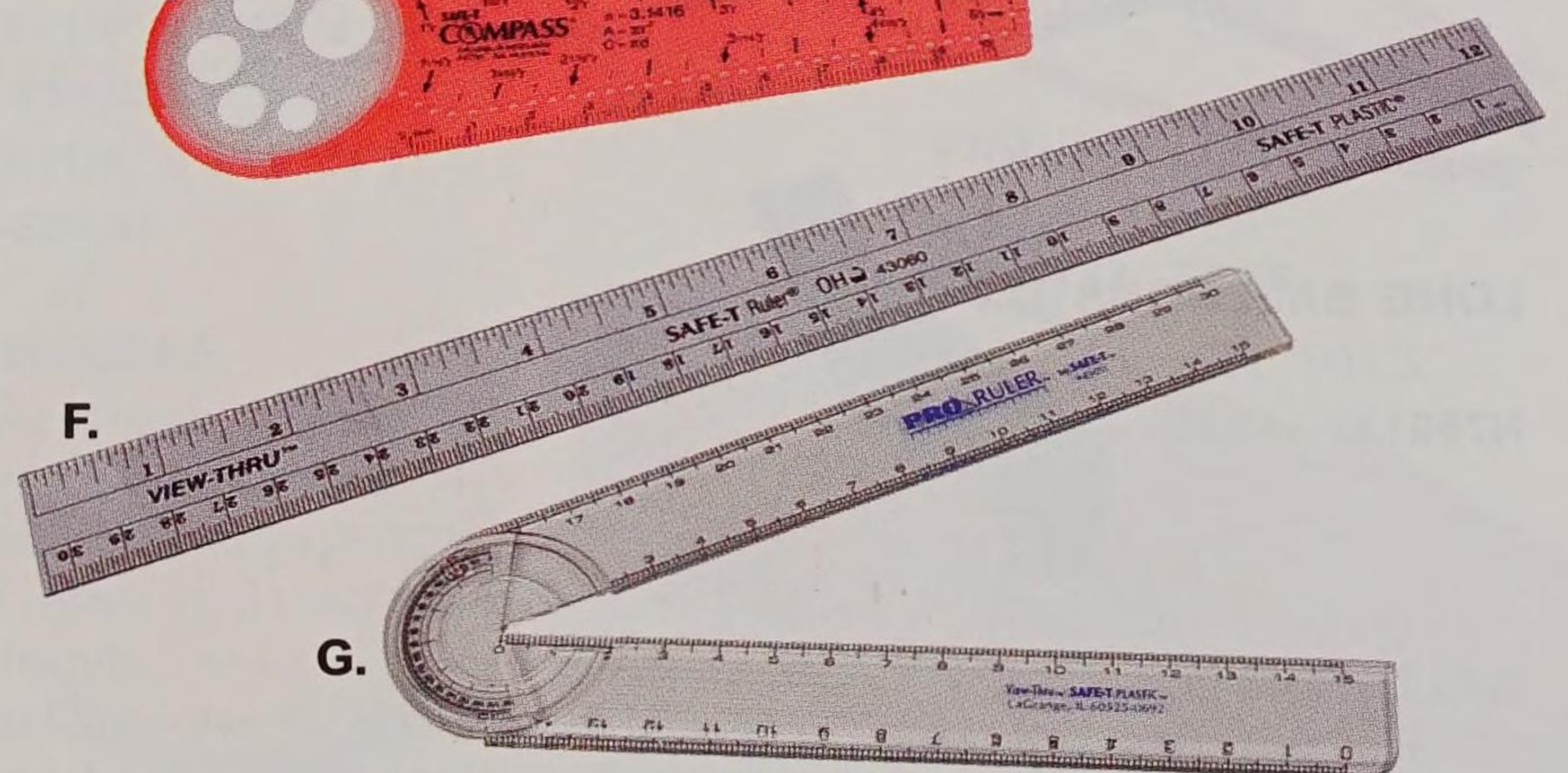
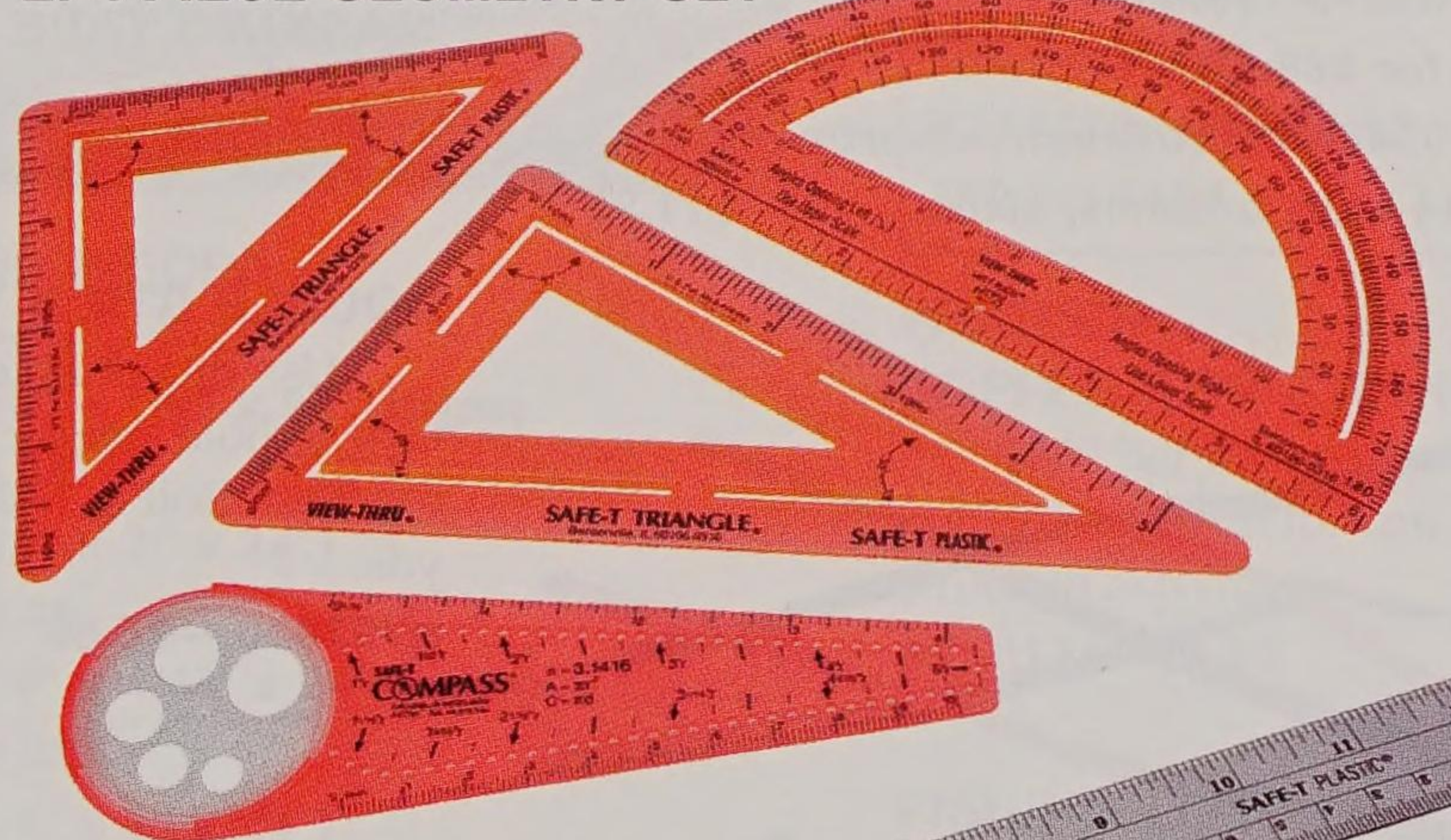
NEON COMPASS **New!**

This traditional style compass features bright colors, plastic construction and the ability to quickly change the included pencil for another instruments such as a ball point pen or felt tip marker.

N756095—\$1.25



E. 4-PIECE GEOMETRY SET



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ACRYLIC PAINT 18 PACK (NON-TOXIC)

Water-soluble, dries quickly. Comes in 1/2 fl. oz. container. Use on paper, wood, and plastic. Color is permanent when dry, water cleanup. Colors include: avocado, medium blue, gold, sandalwood, parrot green, shocking pink, flesh, brown, black, purple, brick red, orange, white, lilac, vanilla, yellow, blue, and red.

N753375—\$9.95

10 for \$89.60

N753469 Paint Brush Assortment
(144 craft brushes, sizes 1 - 6)—\$11.95



LONG BALLOONS *New!*

2"/60". Pkg. of 25.

N756137—\$3.50



BALLOONS

Balloons come in packages of 25.

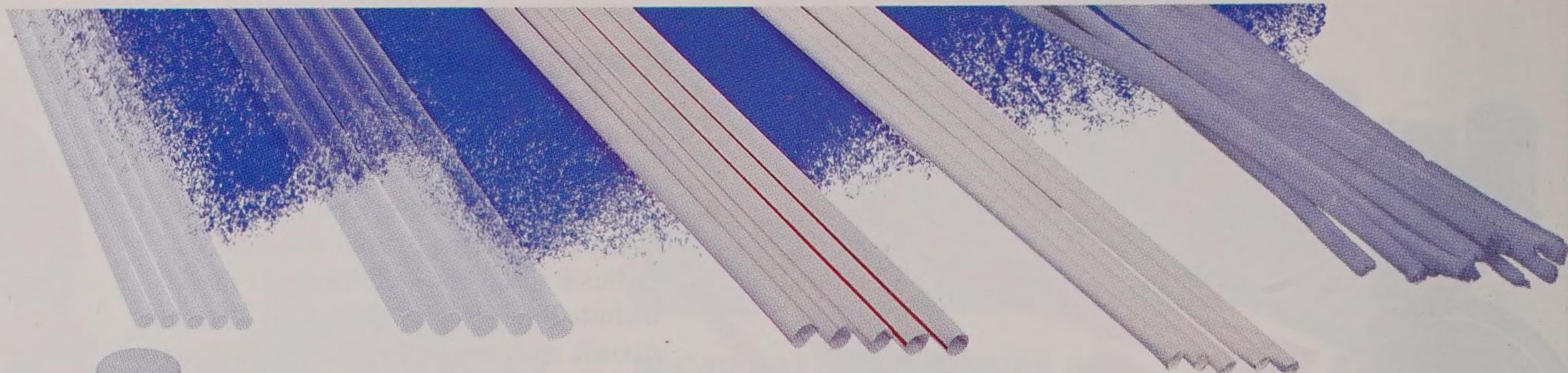
9" N756138—\$3.50

11" N751965—\$3.95



BRADS *New!*

N756135 (100 qty.) —\$3.95



PLASTIC STRAWS FOR STRUCTURES

Use for bridge and structure building competitions and activities. 7-3/4" in length. Box of 500.

N715909 Clear, 1/4" dia. (250 qty)—\$3

N715910 White/red stripe, 1/4" dia. (250)—\$3

N753334 Plastic straw 1/8" (500 qty)—\$3.50

PIPE CLEANERS

One of the innovative folks here at Pitsco thought of a new way to attach straws together for structures - pipe cleaners. Try it, you'll like it. Pkg of 100, colors may vary.

N754853—\$3



MASKING TAPE

1" x 60 yards.

N751962—\$1.25 ea.

DOUBLE STICK TAPE

Use this double-stick tape to hold project parts together. Roll is 3/4" x 36 yds.

N753630 —\$6.50



DUCT TAPE *New!*

Choose from red, blue, green, or yellow. 5 yards.

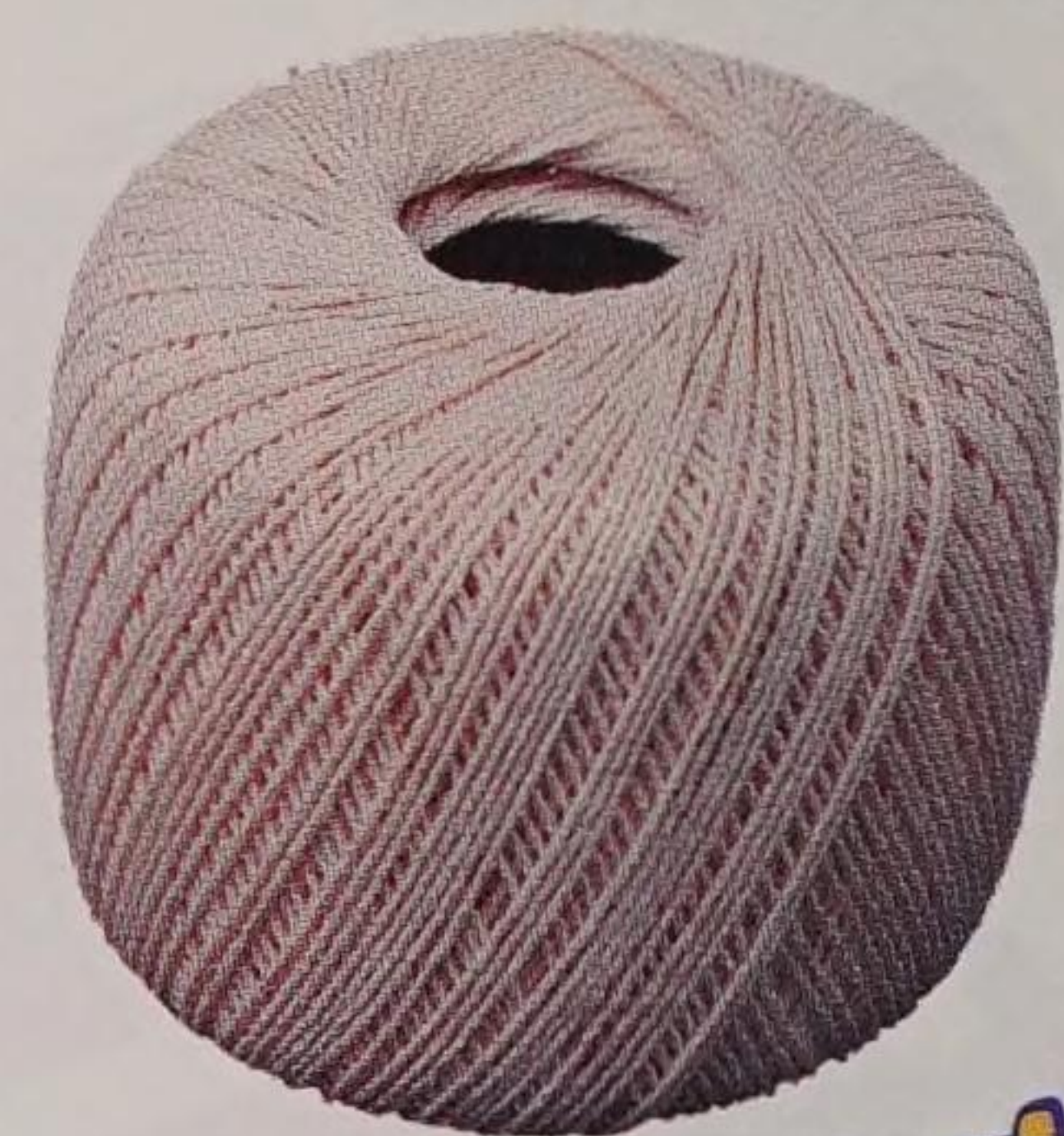
Red N756169

Blue N756170

Green N756171

Yellow N756172

\$3.95 Each



LIGHT TWINE *New!*

Cotton string, roll of 430 feet.

N753916—\$2



SPONGE BALLS

These lightweight foam balls are 3" in diameter. They're great for experiments that involve rolling motion. Colors vary.

N714016—\$1.15



KITE TWINE

Polyester/cotton, roll of 300ft.

N751912—\$2



HOOK AND LOOP FASTENER

Great for a multitude of applications! One 10-foot strip of each material. 3/4" wide.

N751974—\$16.40

Fax Orders Free
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COLORED STRUCTURES GLUE

Pink, green, and blue glue is a hit with teachers and students alike. Specially formulated for student-engineered wooden structures.

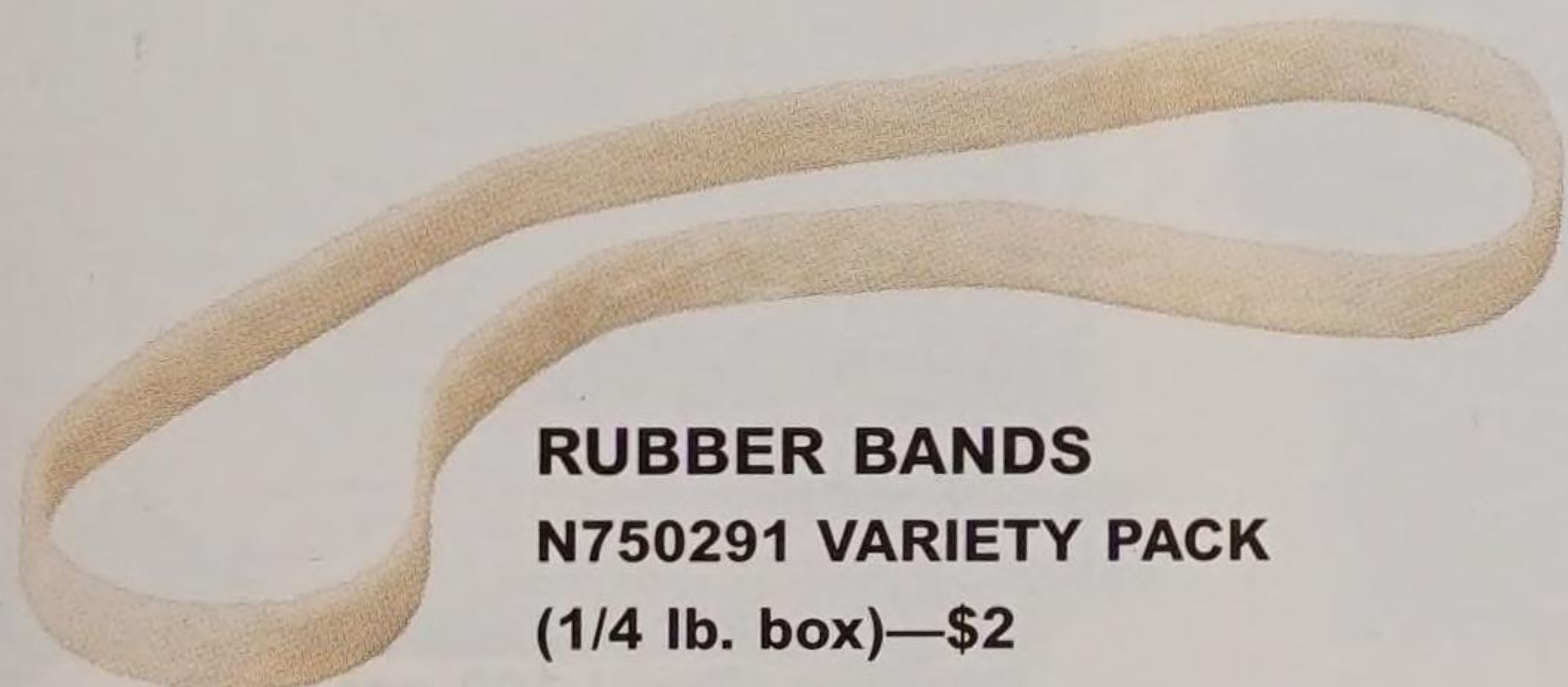
	Pink	Green	Blue	
2 oz.	N751745	N751751	N751746	\$1.25 ea
16 oz.	N751747	N751749	N751748	\$3.50 ea
	10 of 2 oz. (one color) for \$11.30			
	10 of 16 oz. (one color) for \$31.50			

Empty 2 oz. glue bottles with spouts (Pkg of 25)
N752058—\$6.95

HD BOND ADHESIVE

This revolutionary new adhesive has excellent properties for structures and other applications. It dries quickly and provides a strong, flexible bond. It is non-toxic, non-penetrating, and dries clear. 2 oz. squeeze bottle.

N754618—\$1.95



RUBBER BANDS

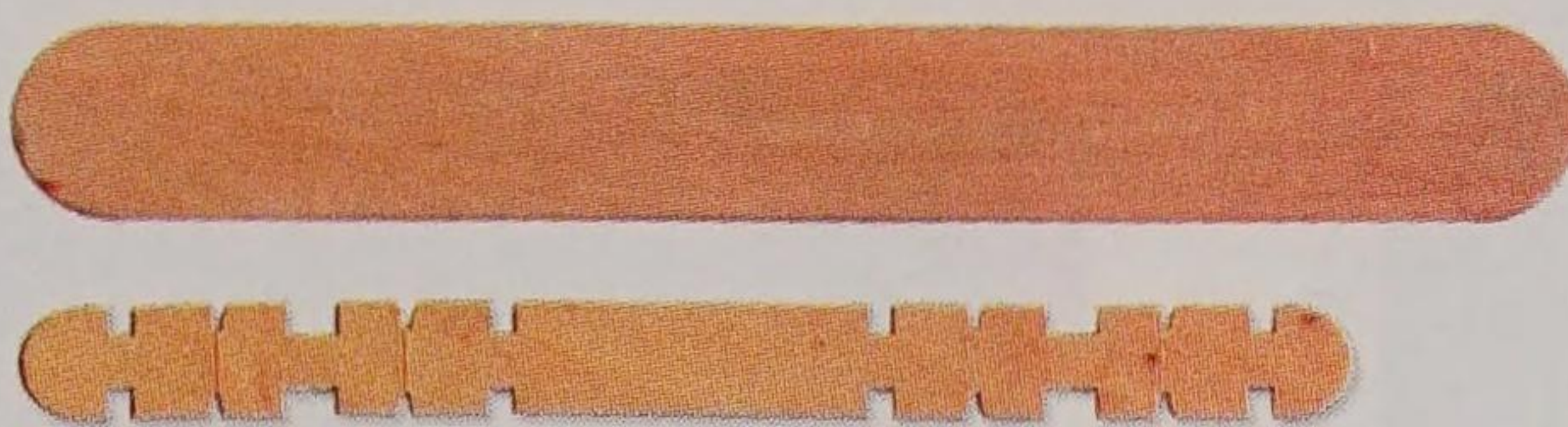
N750291 VARIETY PACK
(1/4 lb. box)—\$2

New!

WIDE RUBBER BANDS

Approximately .5" W x 2" L.
Package of 50.

N756136—\$1.95



JUMBO CRAFT STICKS

6" x 3/4" x 1/12" sized craft sticks. Use to create many different items. Sticks come in bag of 75.

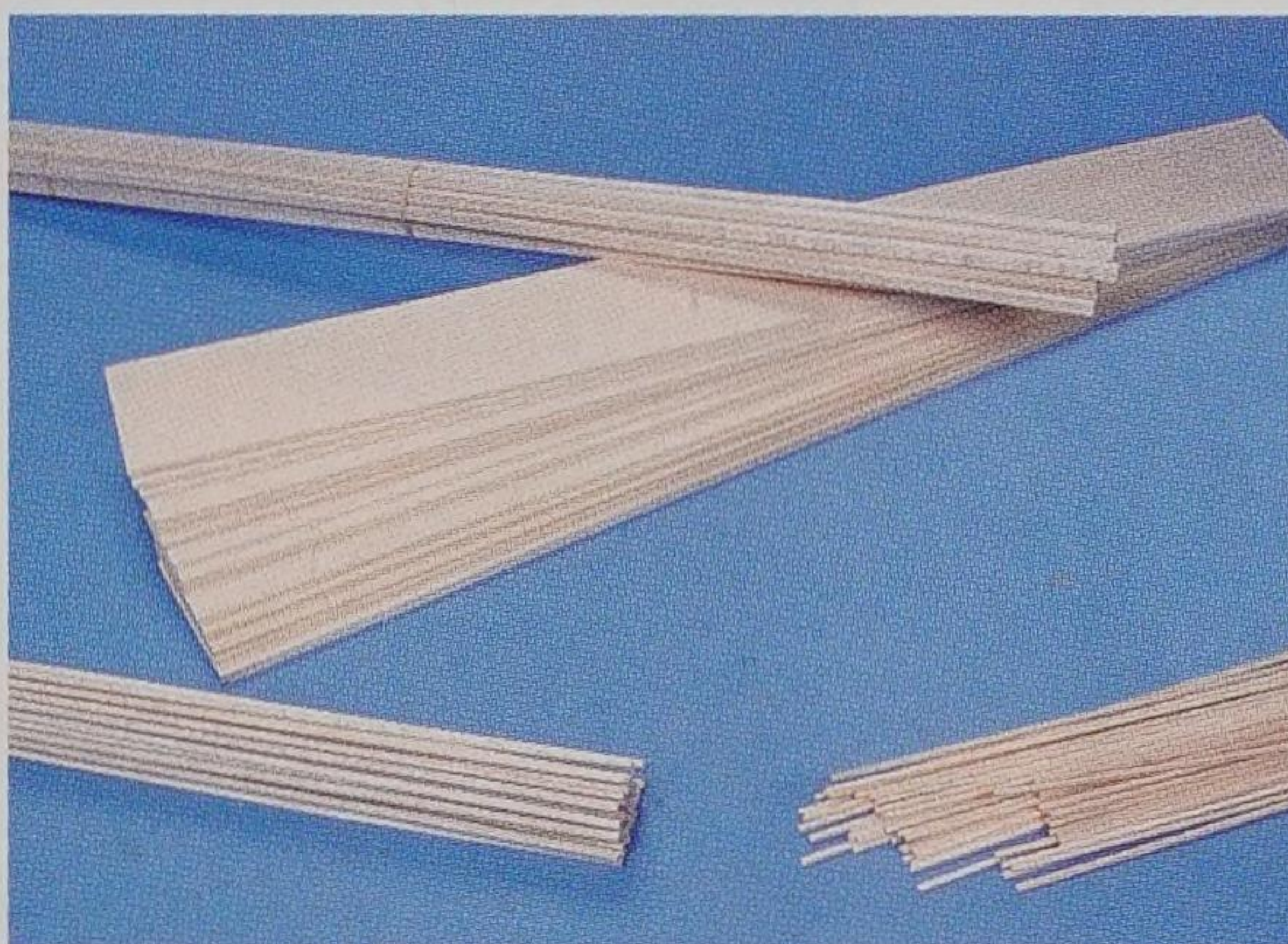
N753725—\$2.75

SKILL STICKS

Skill Sticks are a notched craft stick used to produce many fun projects. They are all alike but can be snapped into 6 various combinations. No cutting is required.

The sticks are 4-1/2" long x 3/8" wide. Ideas and instructions are included. Sticks come in bag of 1000.

N750456—\$9.50



BASSWOOD PIECES

For various projects.

N751591 (1/8" x 1/8" x 24" strips)

50 qty—\$11.50

N751592 (1/8" x 3" x 24")

15 qty—\$23.25

N751593 (1/4" x 1/4" x 24" strips)

20 qty—\$10.95

N751625 (1/4" x 3" x 24")

10 qty—\$20.95

CARD WHEELS

These wheels are great for various vehicles, including mousetrap cars and paper cars. Made of sturdy card stock material, they feature low rolling resistance. Pack includes 504 wheels each of 1-1/2" and 2-1/2" diameters. ID- 3/16"

N755035—\$25

N751945 (Hardwood

Dowel 36" x 3/16")—\$23

100 for \$21



DOWELS

Quality hardwood dowels, 36" long.

N753508 (1/8")—\$1.16

100 for \$115

N751945 (3/16")—\$2.23

100 for \$21

N753474 (1/4")—\$2.25

100 for \$23

N753475 (5/16")—\$3.35

100 for \$32

N753476 (3/8")—\$4.40

100 for \$36

N753477 (1/2")—\$7.75

100 for \$68

N753478 (5/8")—\$1.15

100 for \$104

N753479 (3/4")—\$1.40

100 for \$126

N753480 (1")—\$2.15

100 for \$194

WOODEN

COFFEE STIR STICKS

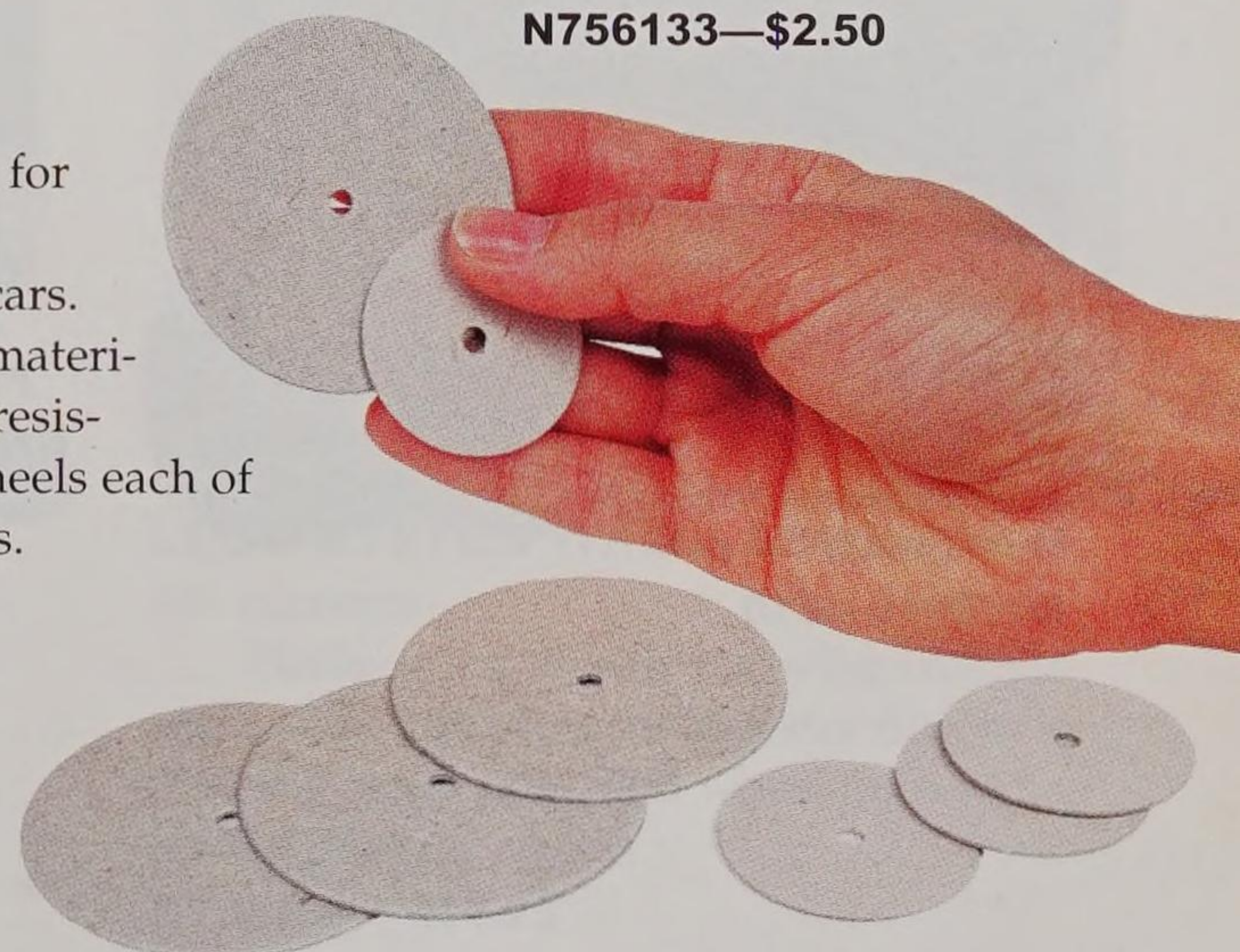
1000 per box. An inexpensive material for construction activities.

N756134—\$3.95

FISHING LINE

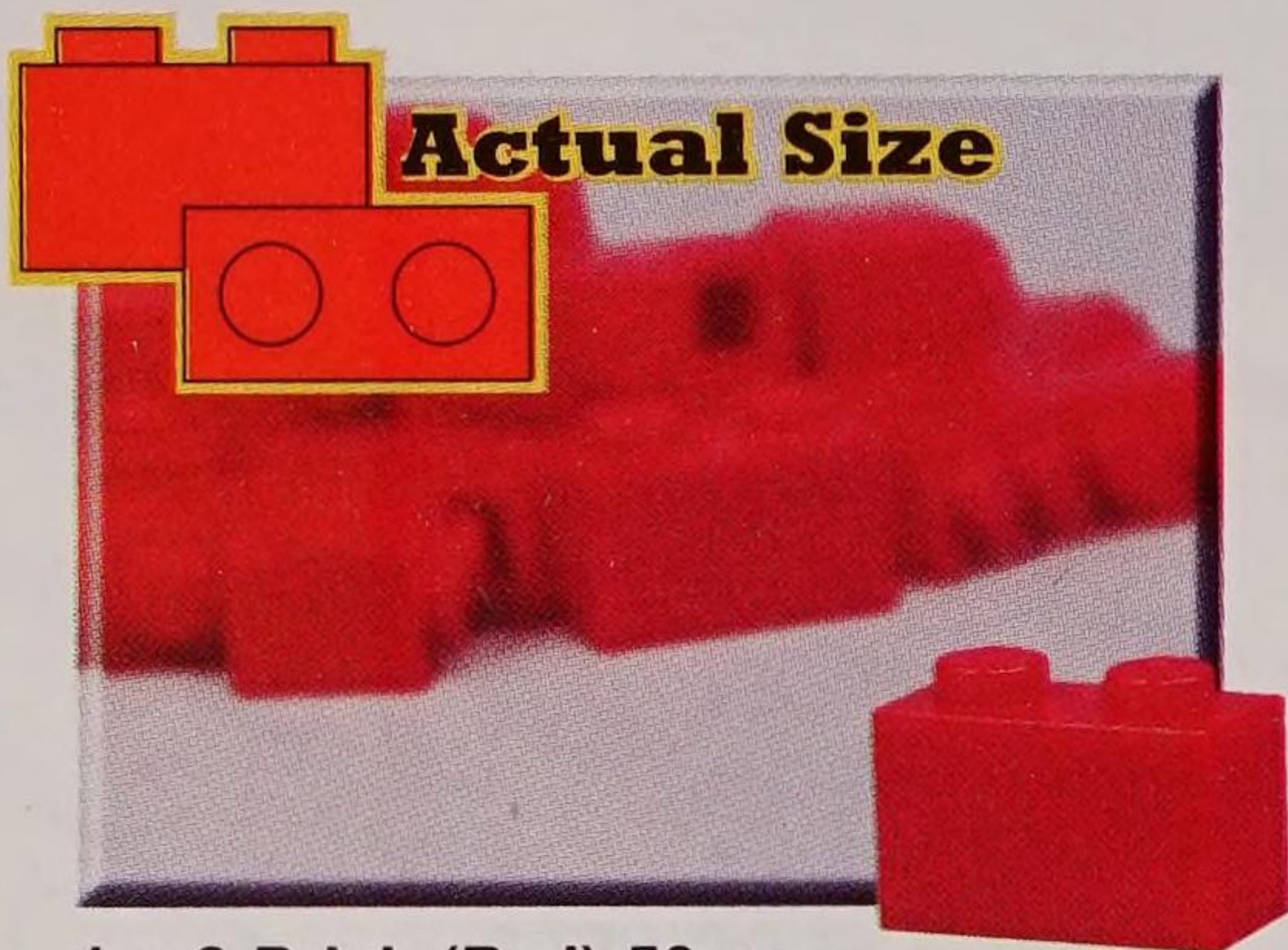
20# test. 225 yds.

N756133—\$2.50



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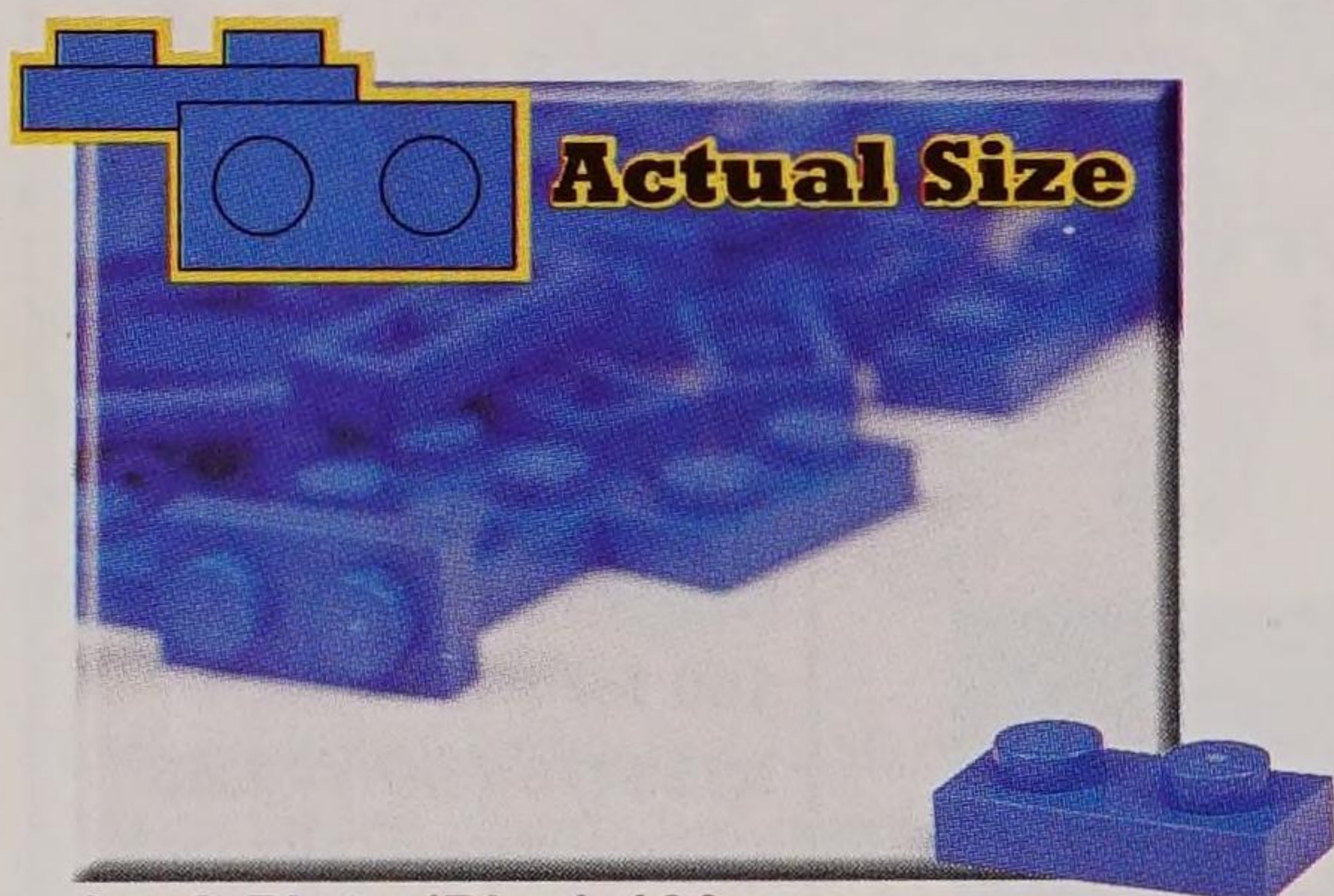
1 x 2 Brick (Red) 50 pcs.
N970008—\$10



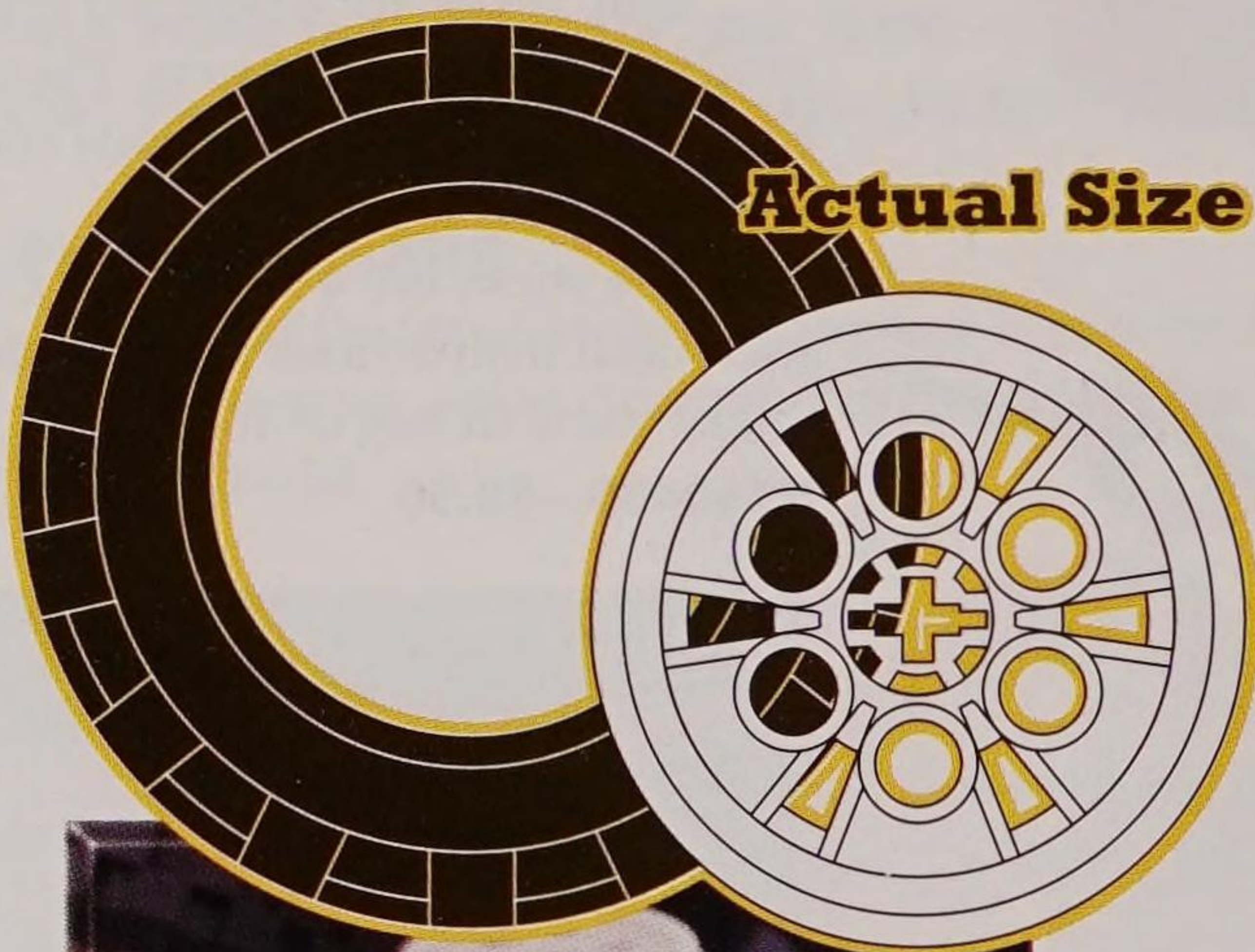
1 x 2 Beam (Red) 50 pcs.
N970013—\$10



6 Stud Axle (Black) 75 pcs.
N970015—\$10



1 x 2 Plate (Blue) 100 pcs.
N970009—\$10



Red Rover Tires & Hubs
4 pcs. of ea.
N970021—\$10



4 Stud Axle (Black) 100 pcs.
N970014—\$10



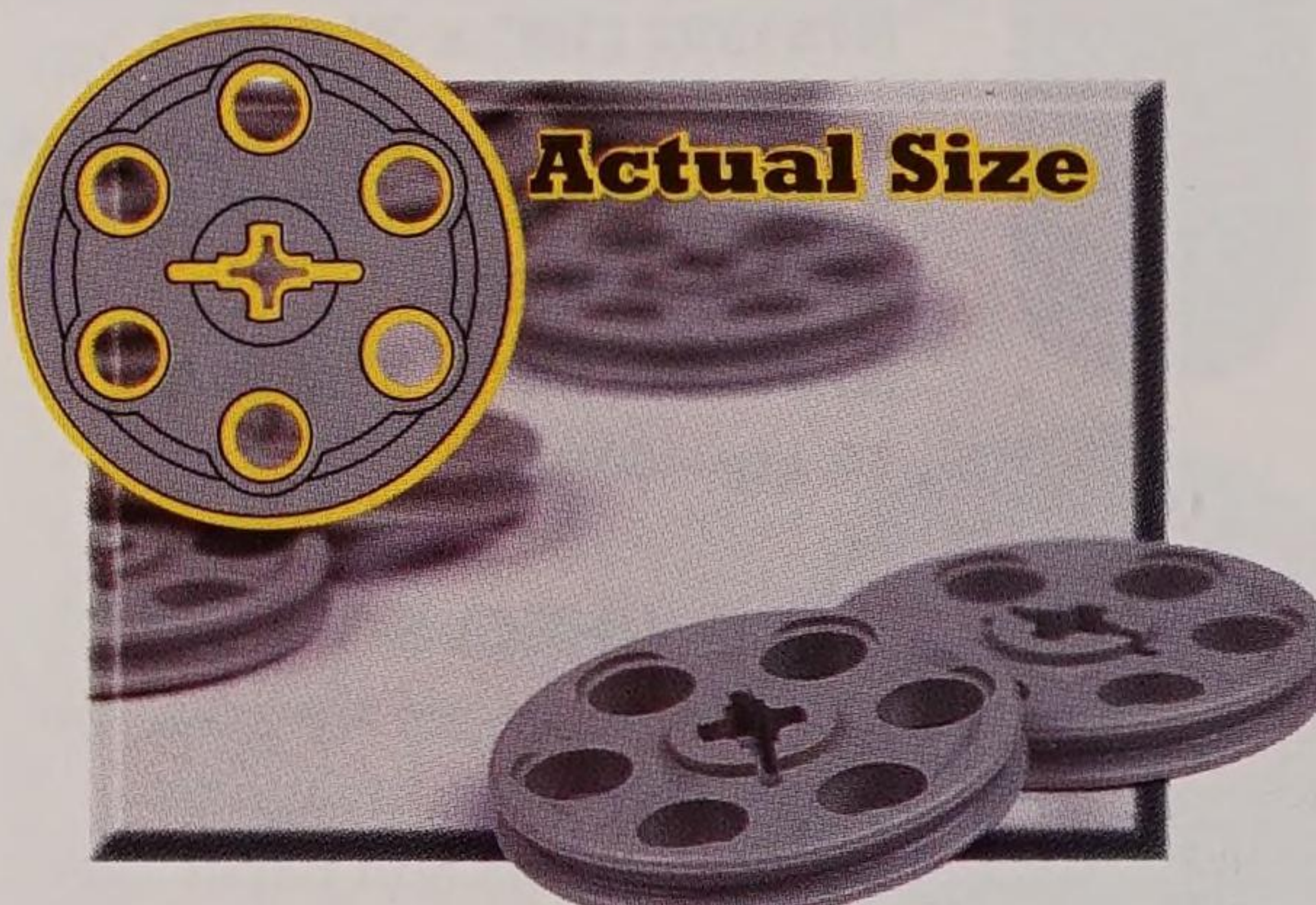
O-Ring (Black) 50 pcs.
N970007—\$10



3 Stud Axle (Black) 100 pcs.
N970019—\$10



Hub (Gray) 50 pcs.
N970010—\$10



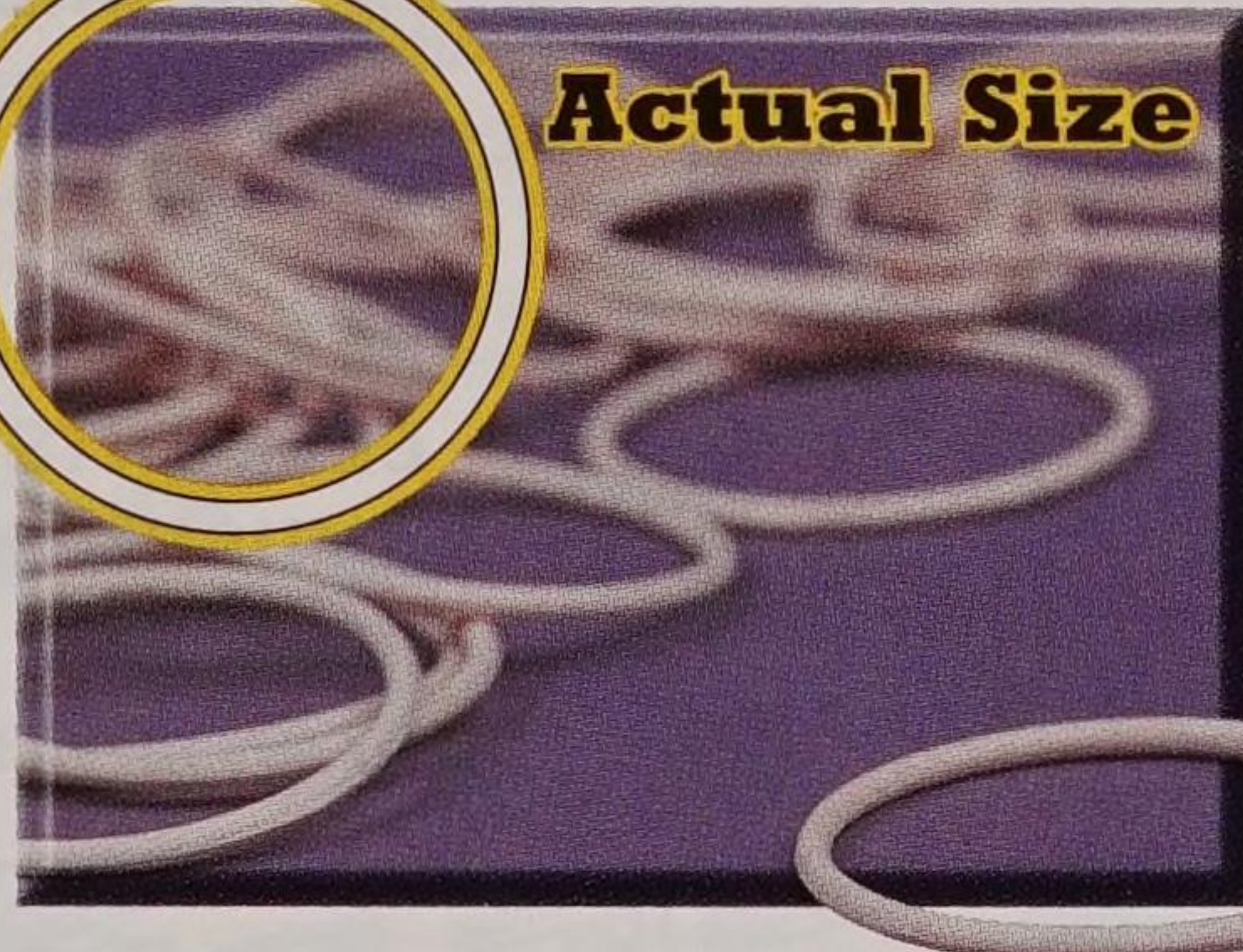
Pulley Wheel (Gray) 50 pcs.
N970018—\$10



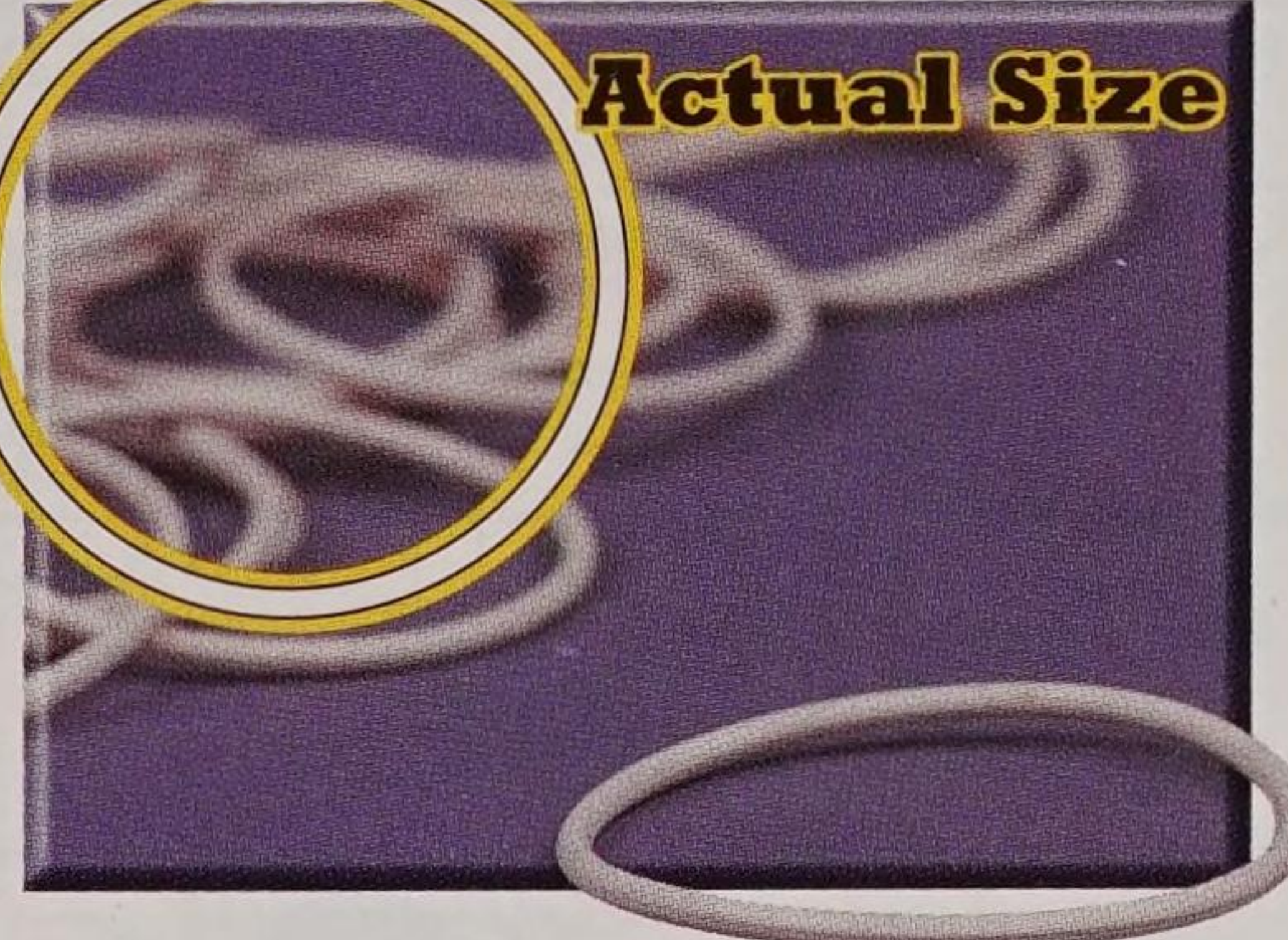
Bushing (Gray) 100 pcs.
N970016—\$10



Small Pulley (Gray) 100 pcs.
N970020—\$10



Small Band (White) 25 pcs.
N970001—\$10



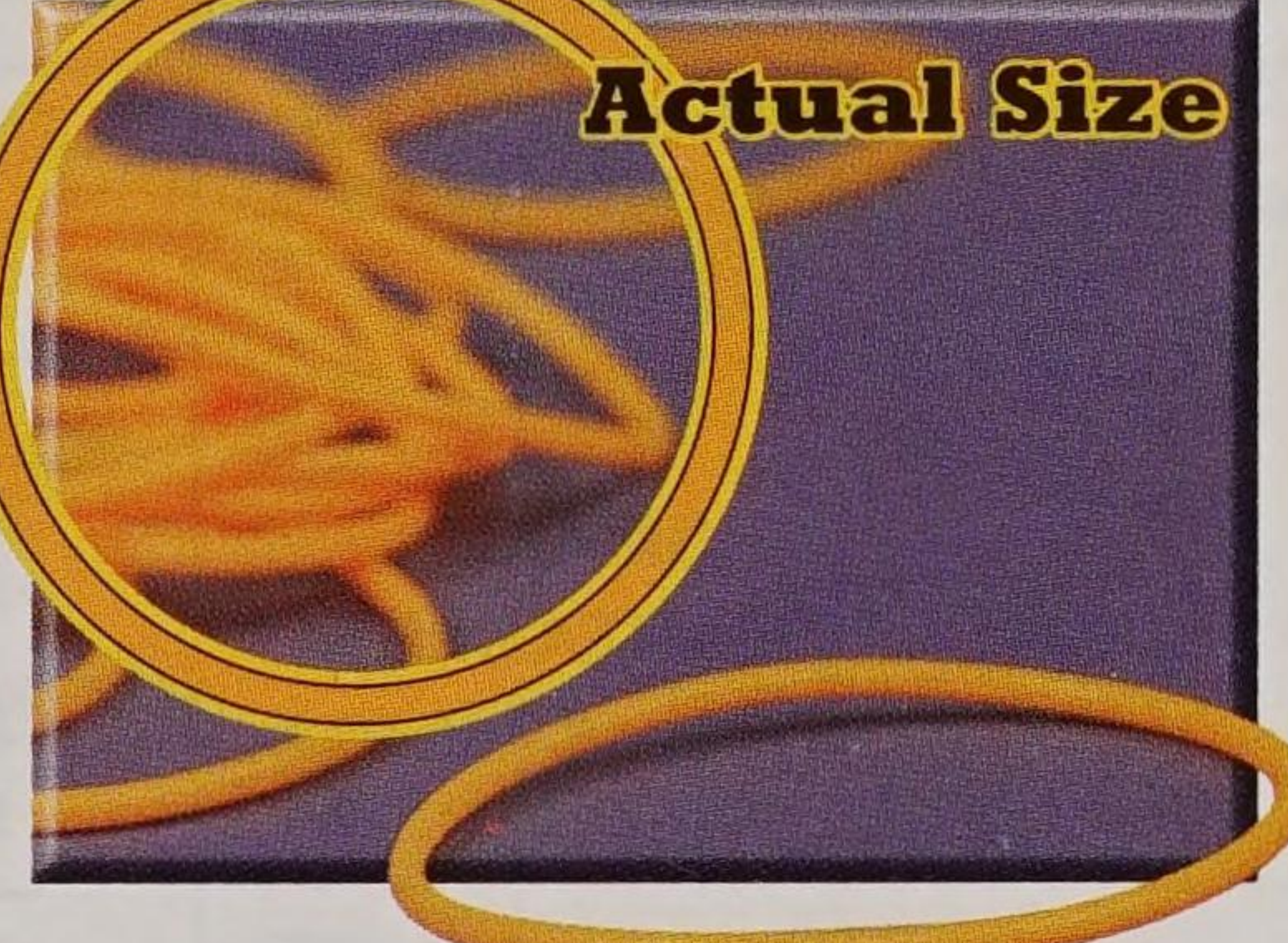
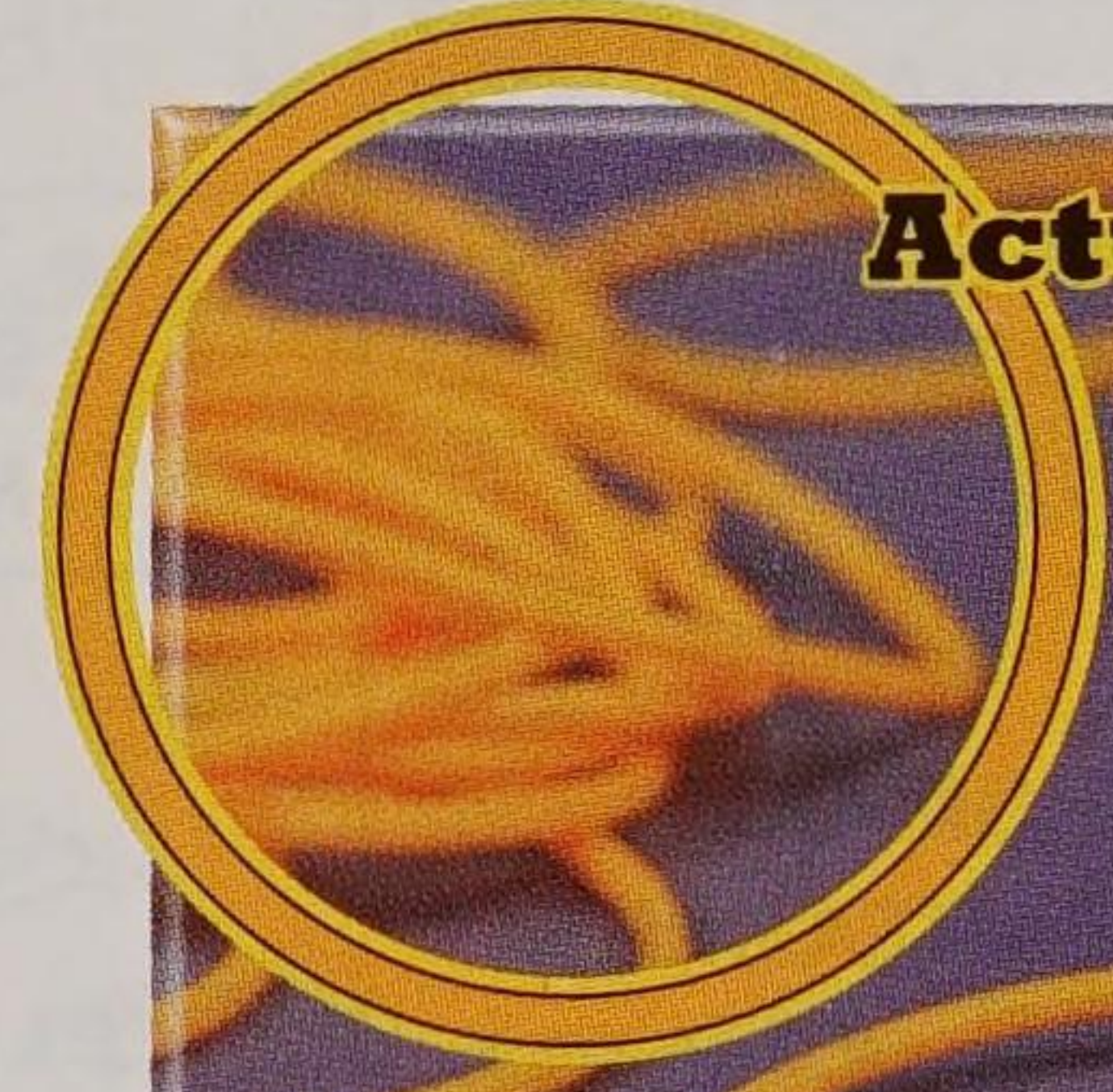
Large Band (White) 25 pcs.
N970002—\$10



8-Tooth Spur Gear (Gray) 100 pcs.
N970011—\$10



Band (Blue) 25 pcs.
N970003—\$10



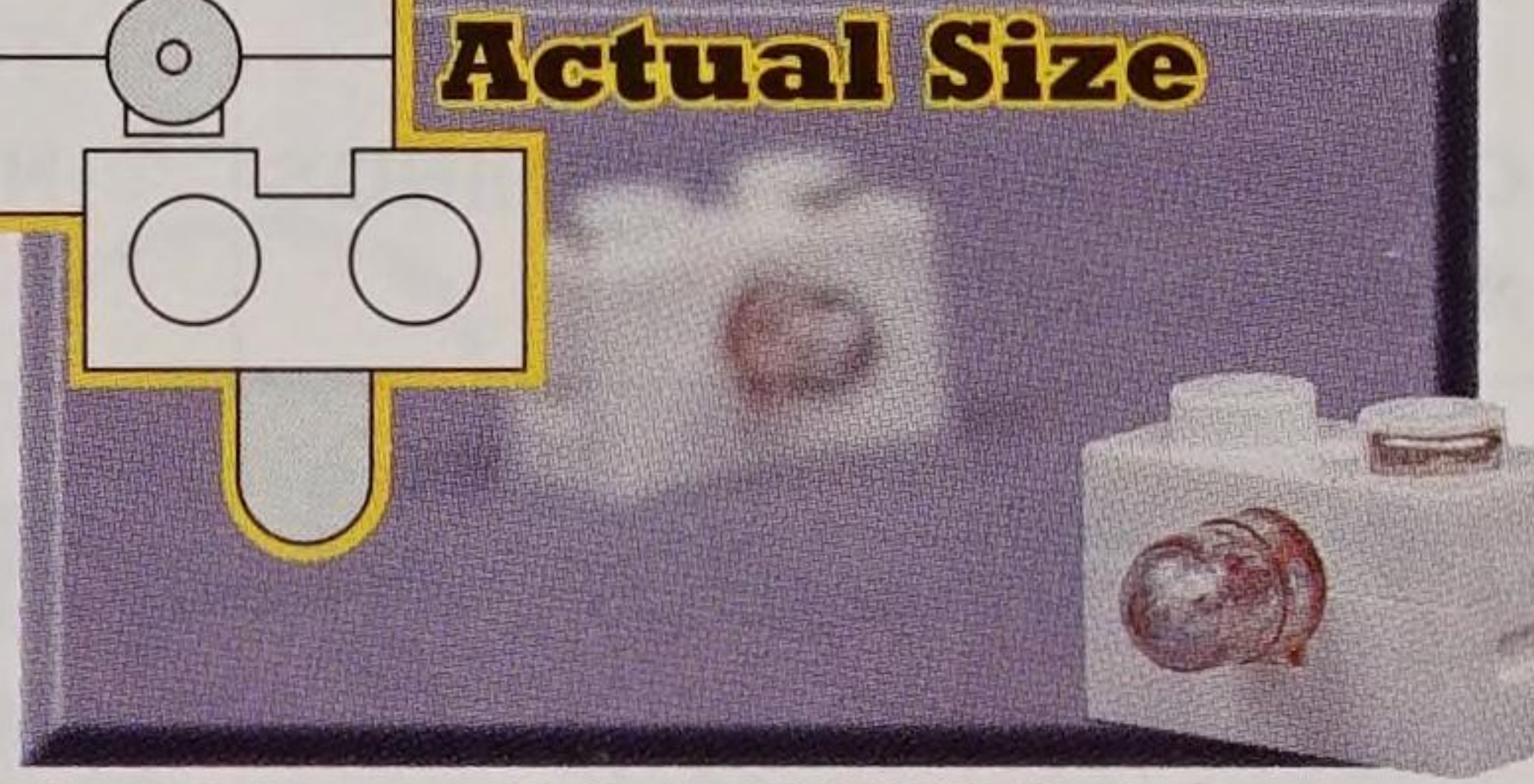
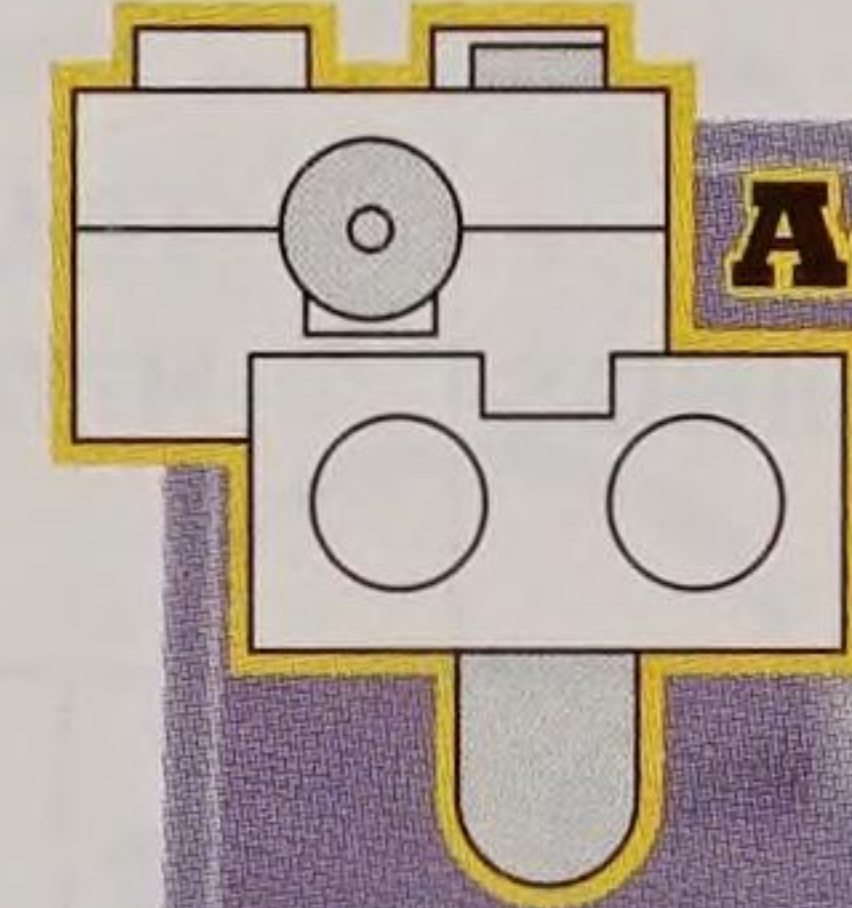
Band (Yellow) 25 pcs.
N970004—\$10



14-Tooth Beveled Gear (Gray) 100 pcs.
N970017—\$10



Friction Connector Peg (Black) 100
pcs.
N970006—\$10



1 x 2 Lamp Brick 9V (White) 2 pcs.
N970005—\$10



Connector Peg (Gray) 100 pcs.
N970012—\$10



Connector Peg 1 1/2 (Dark Gray) 100
pcs.
N970022—\$10

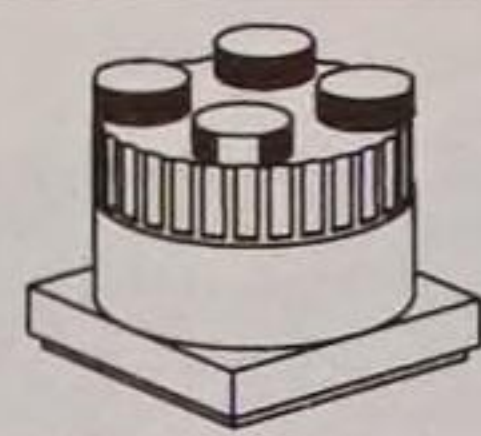


LEGO SYSTEM WHEELS #779269
288 elements

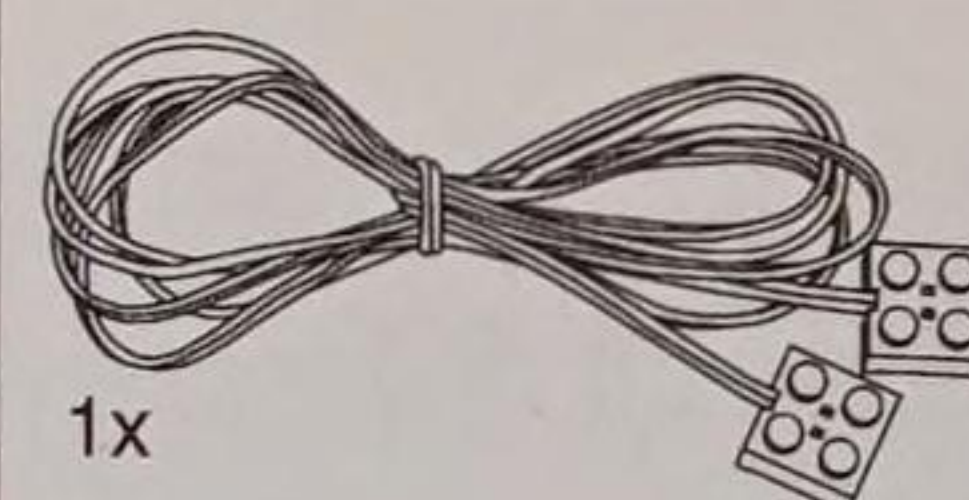
Nothing but wheels—just what children want. This complete set includes tires in two different sizes, axles, and wheel hubs to make 72 sets of wheels.

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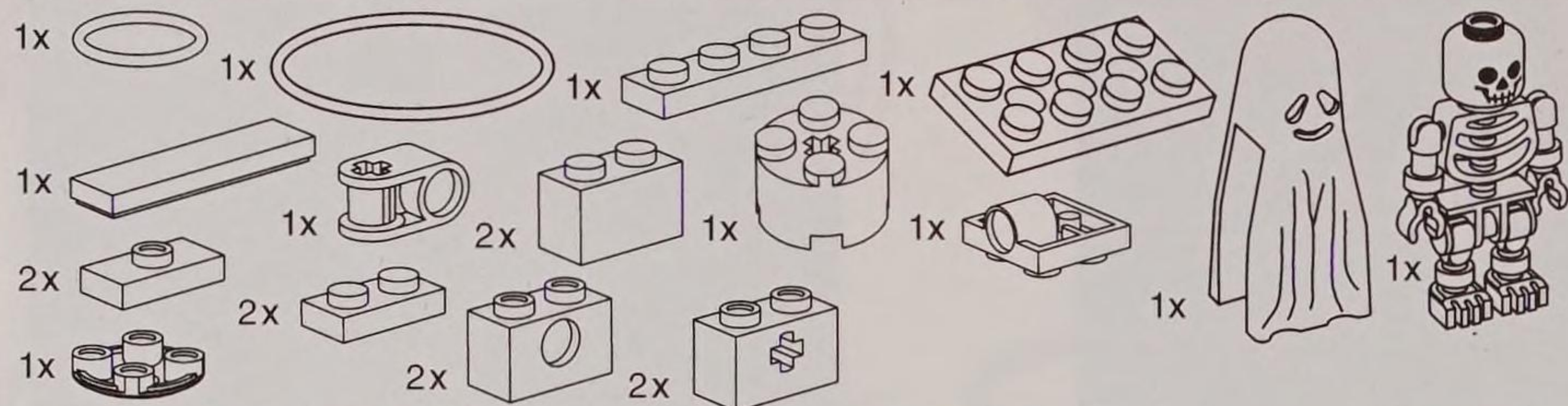
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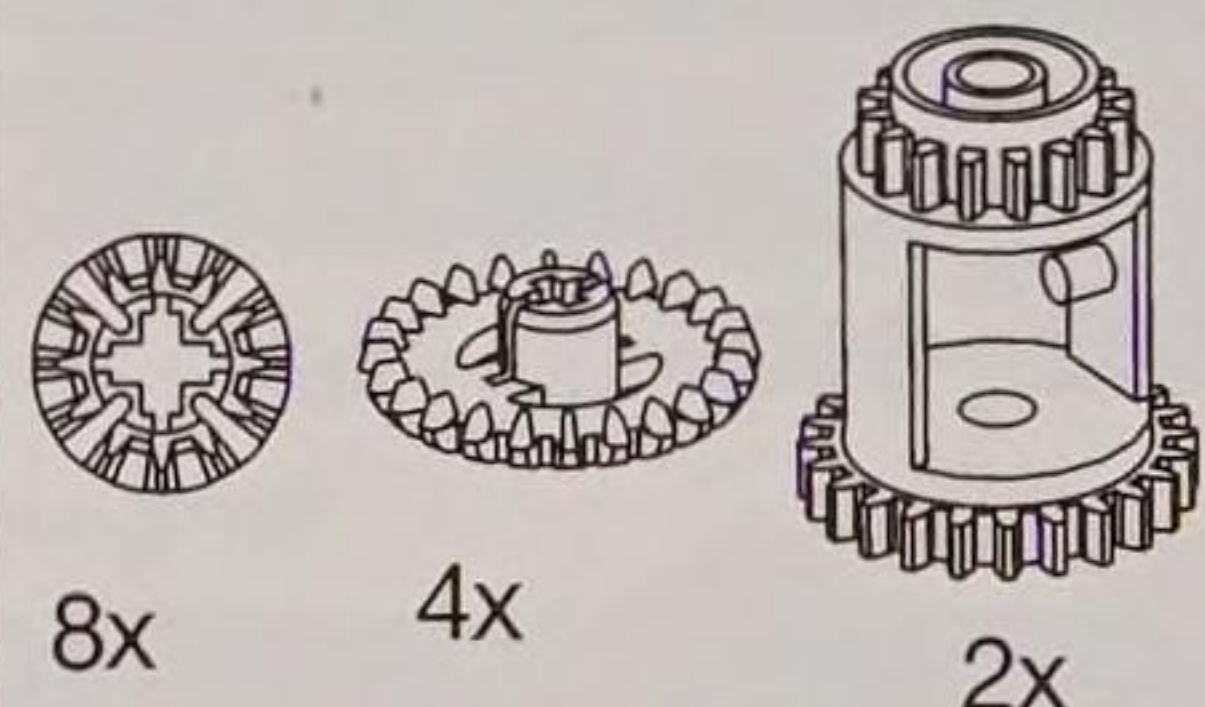
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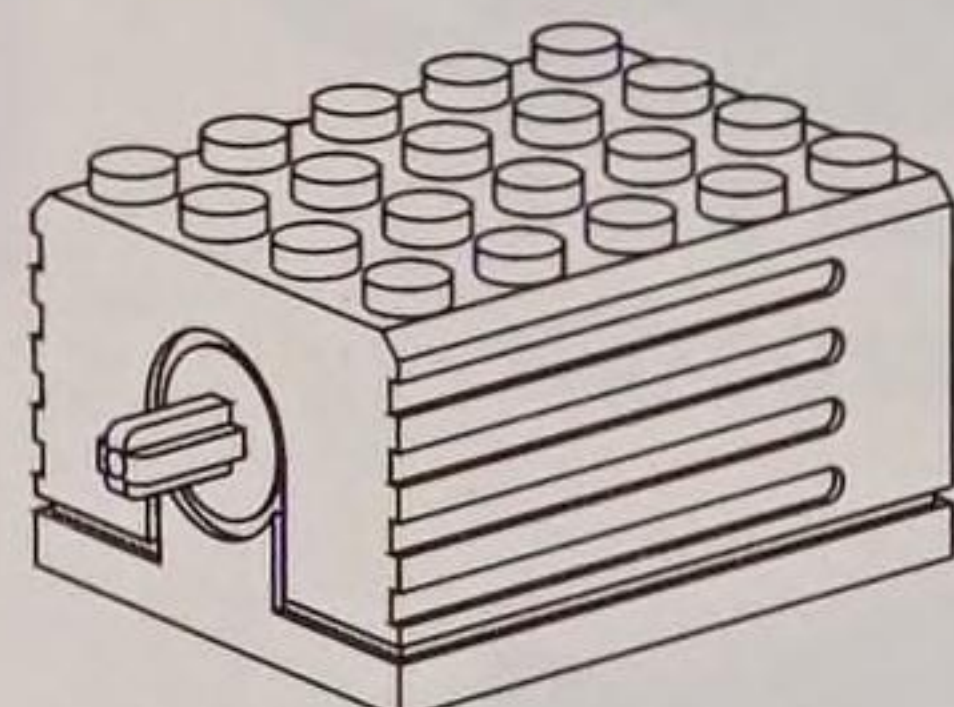
**TOUCH SENSOR AND
LEADS (9 VOLT)**
N779911—\$11



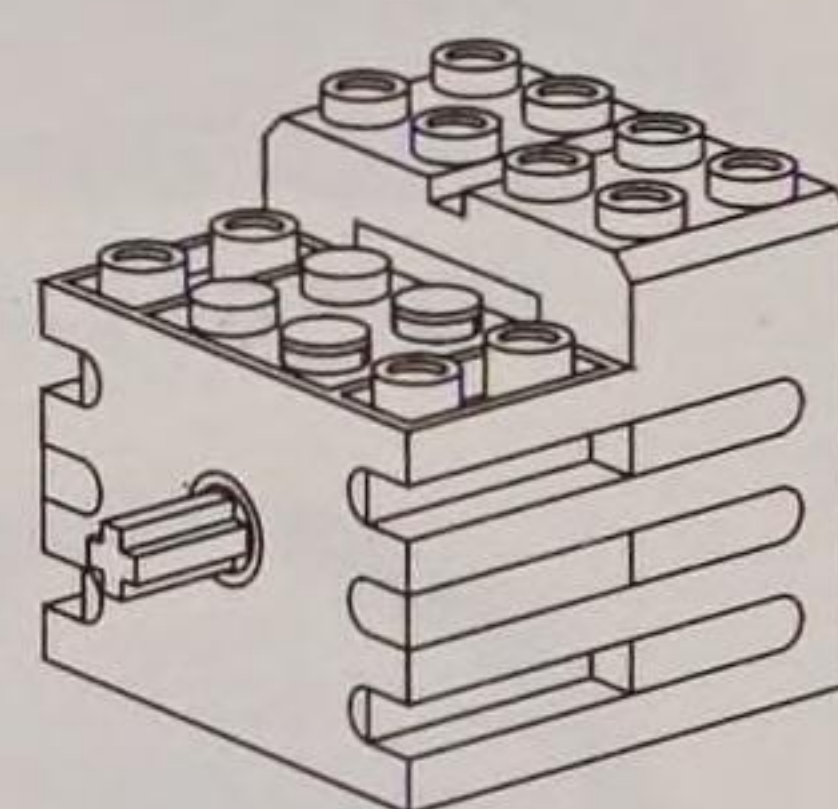
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PARK SET**
N779914—\$3.50



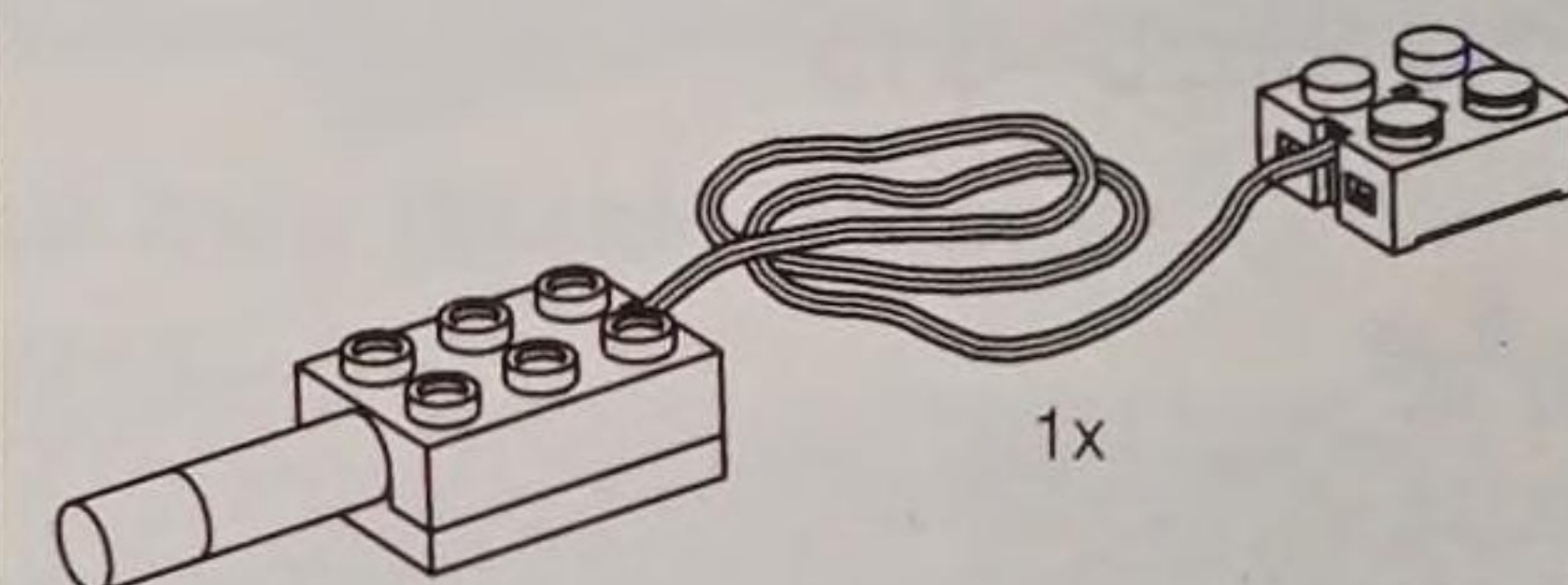
DIFFERENTIALS
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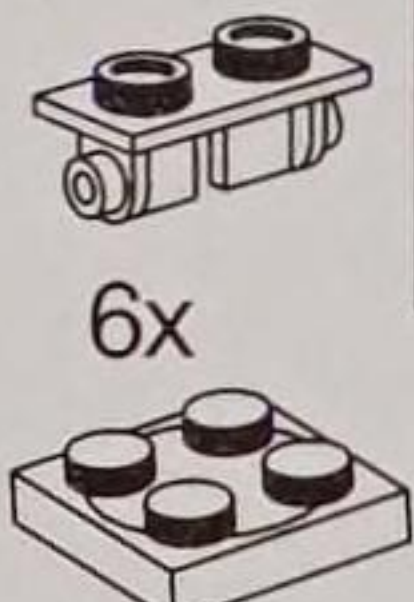
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N775114—\$15.75



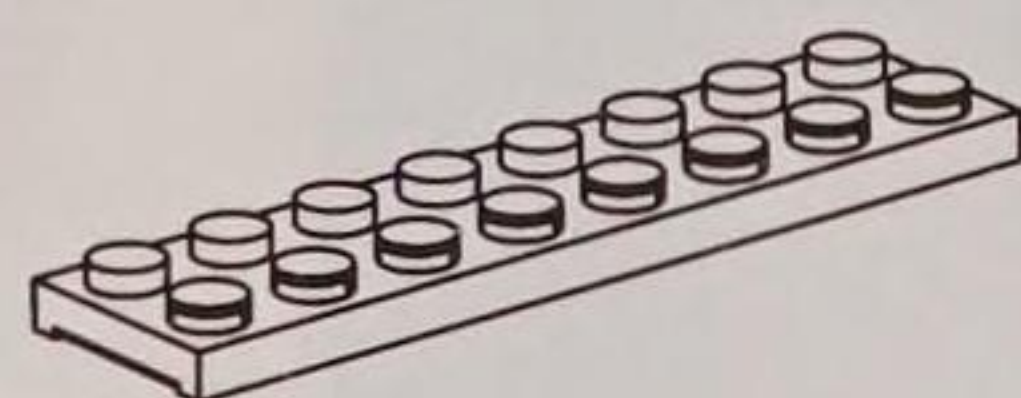
**9 VOLT MOTOR WITH
GEAR REDUCTION**
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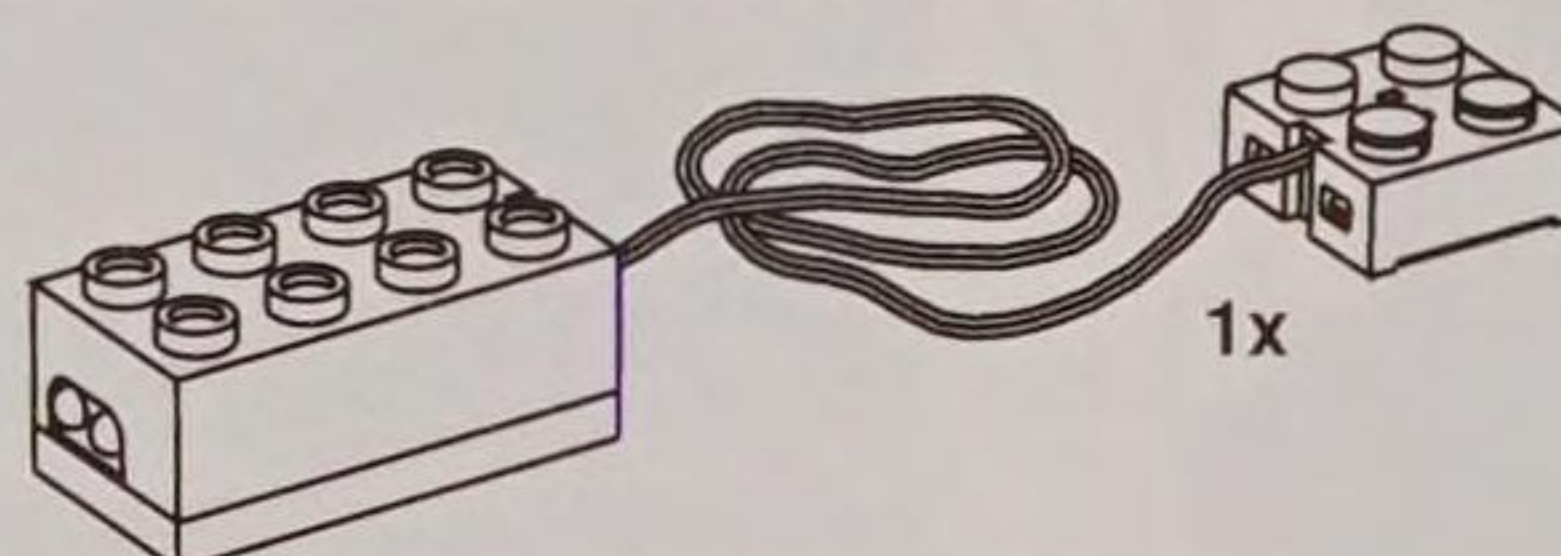
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TEMPERATURE SENSOR**
N979889—\$27.75



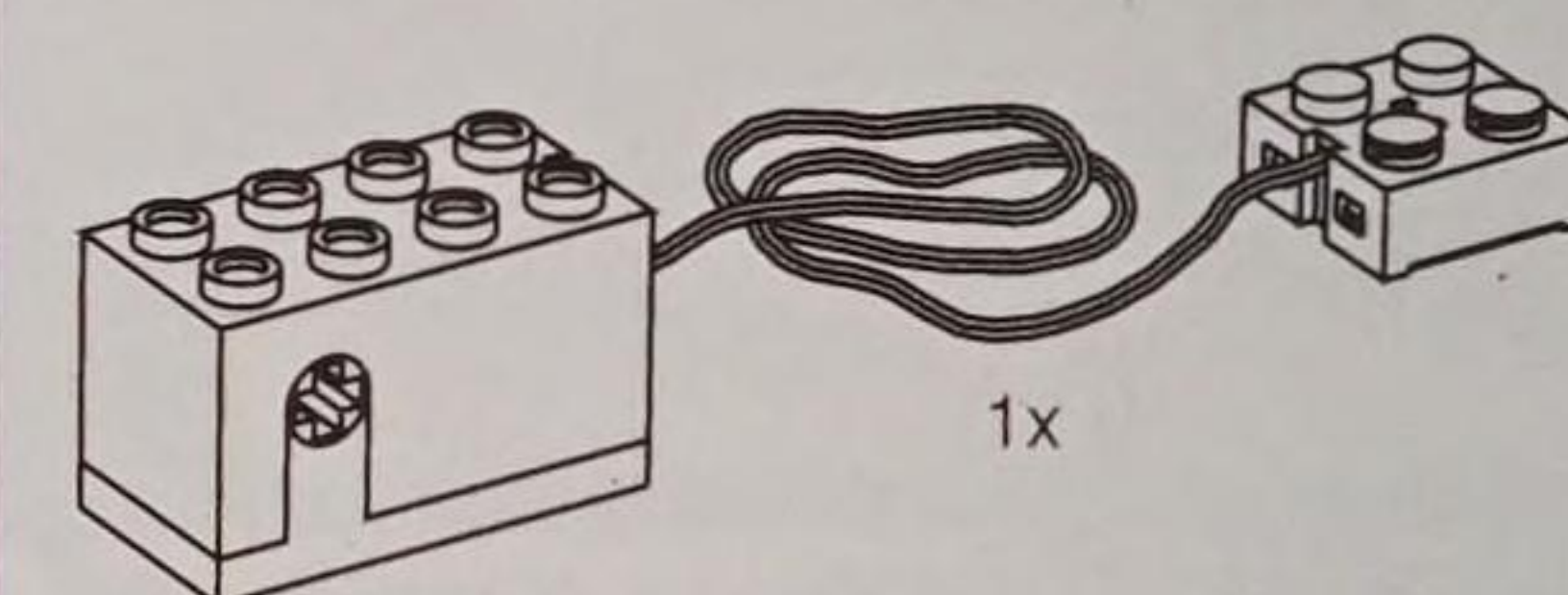
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N779946—\$5.25



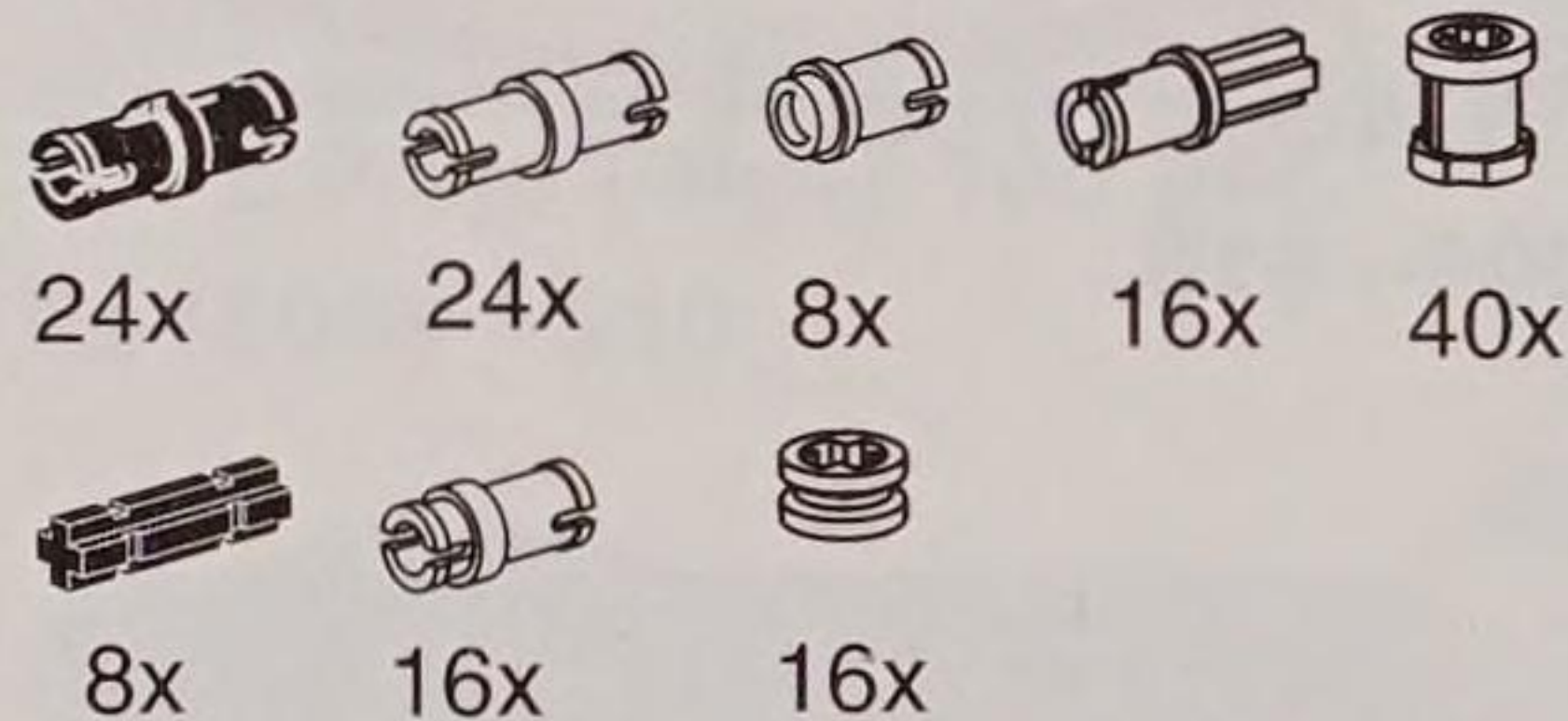
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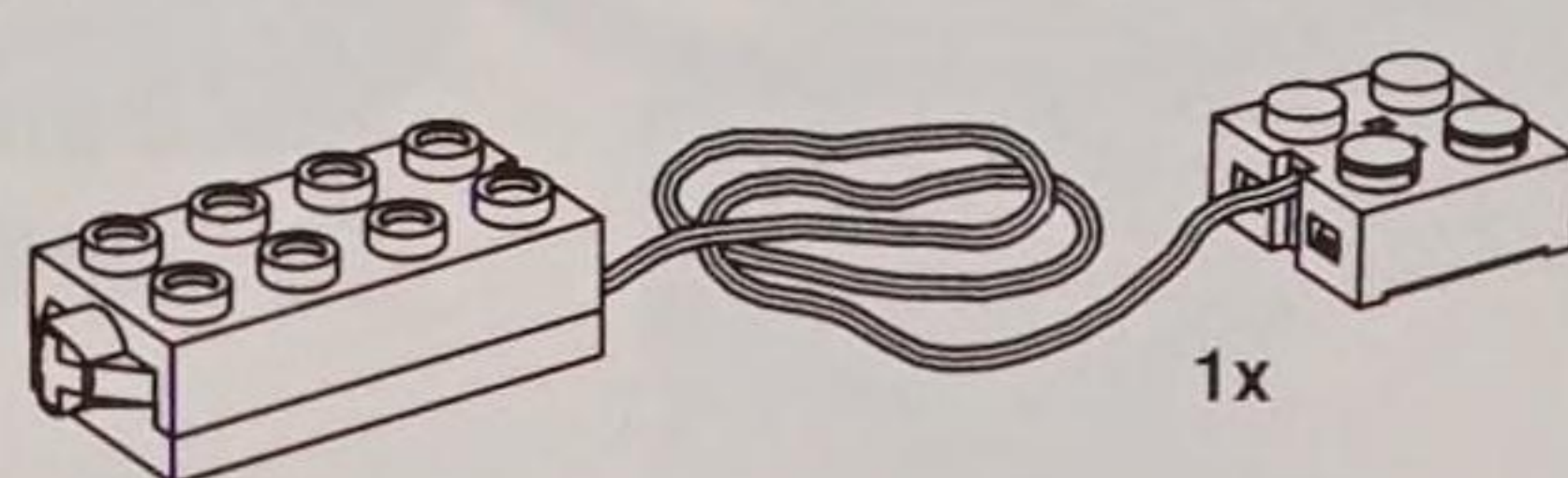
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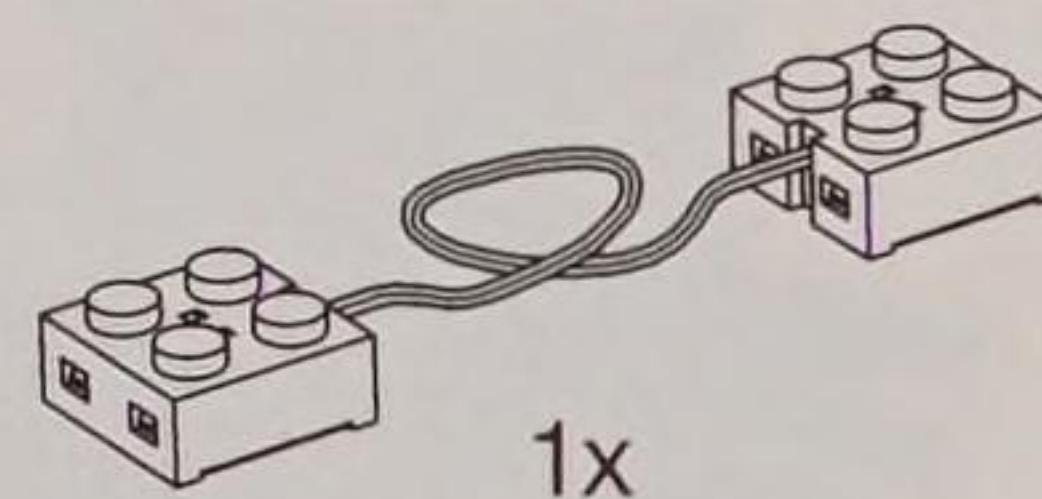
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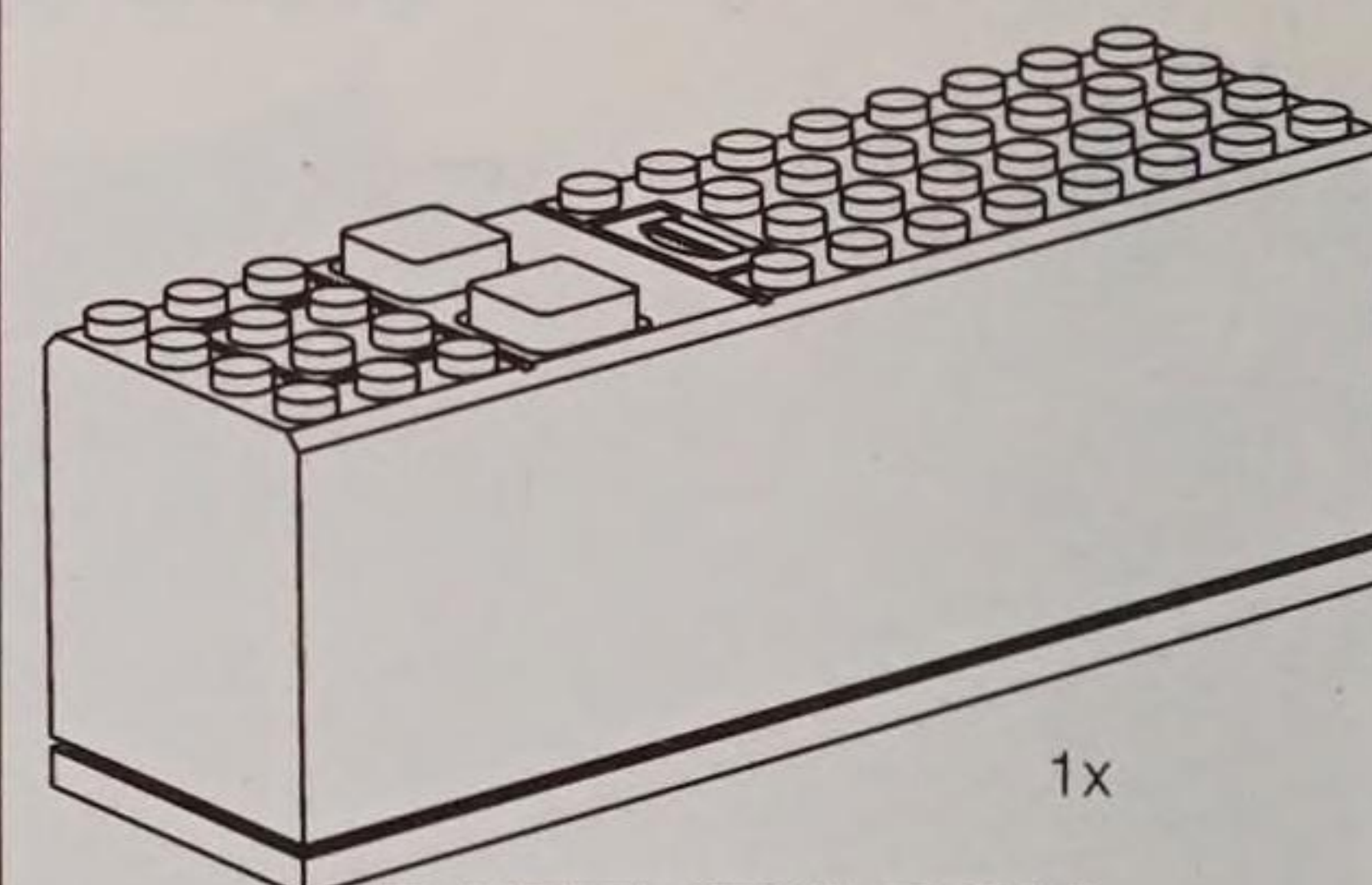
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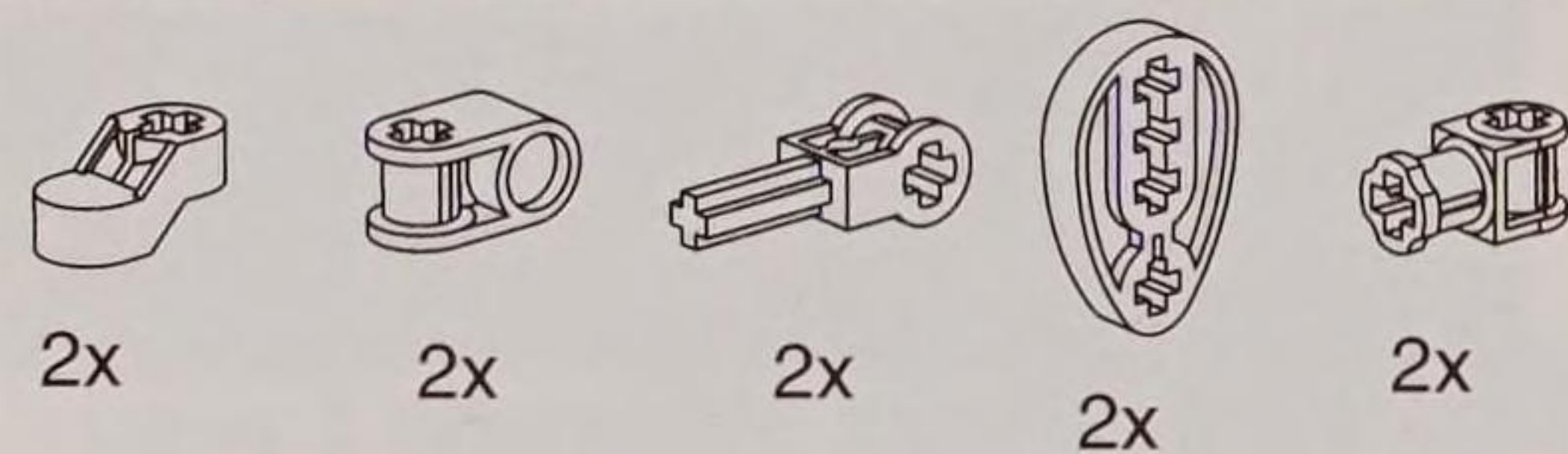
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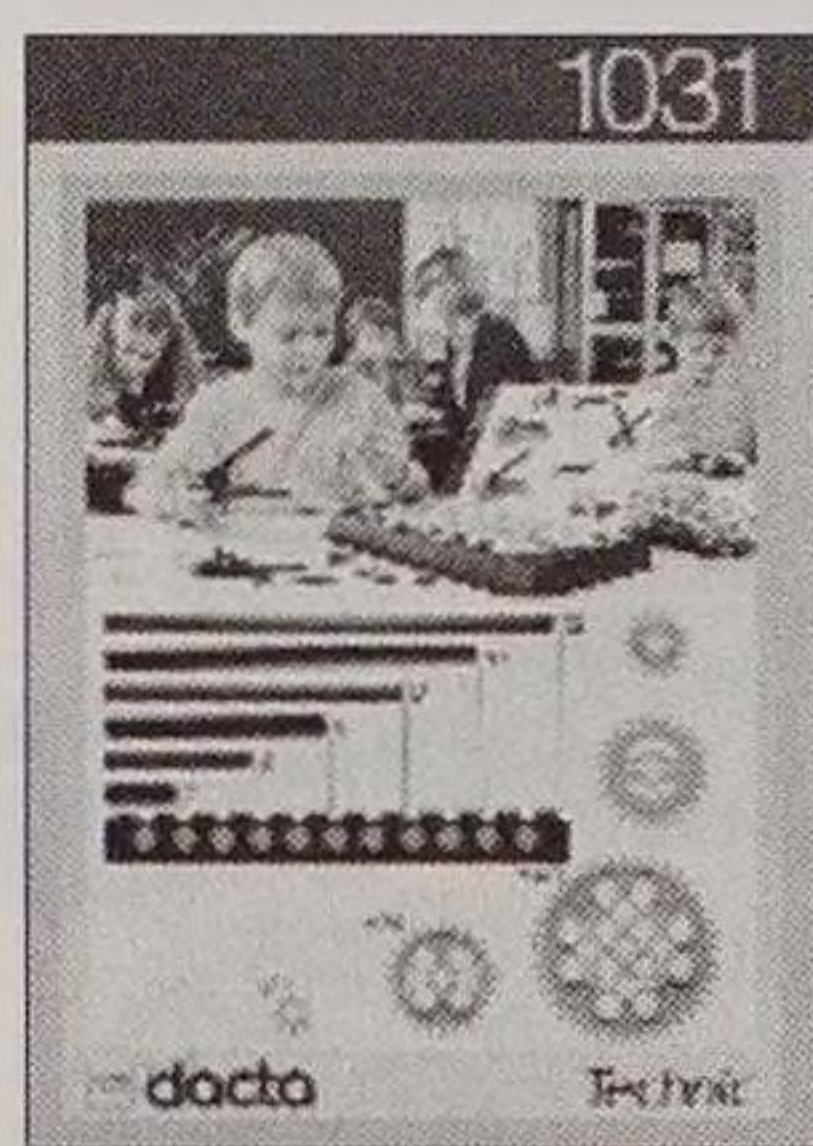
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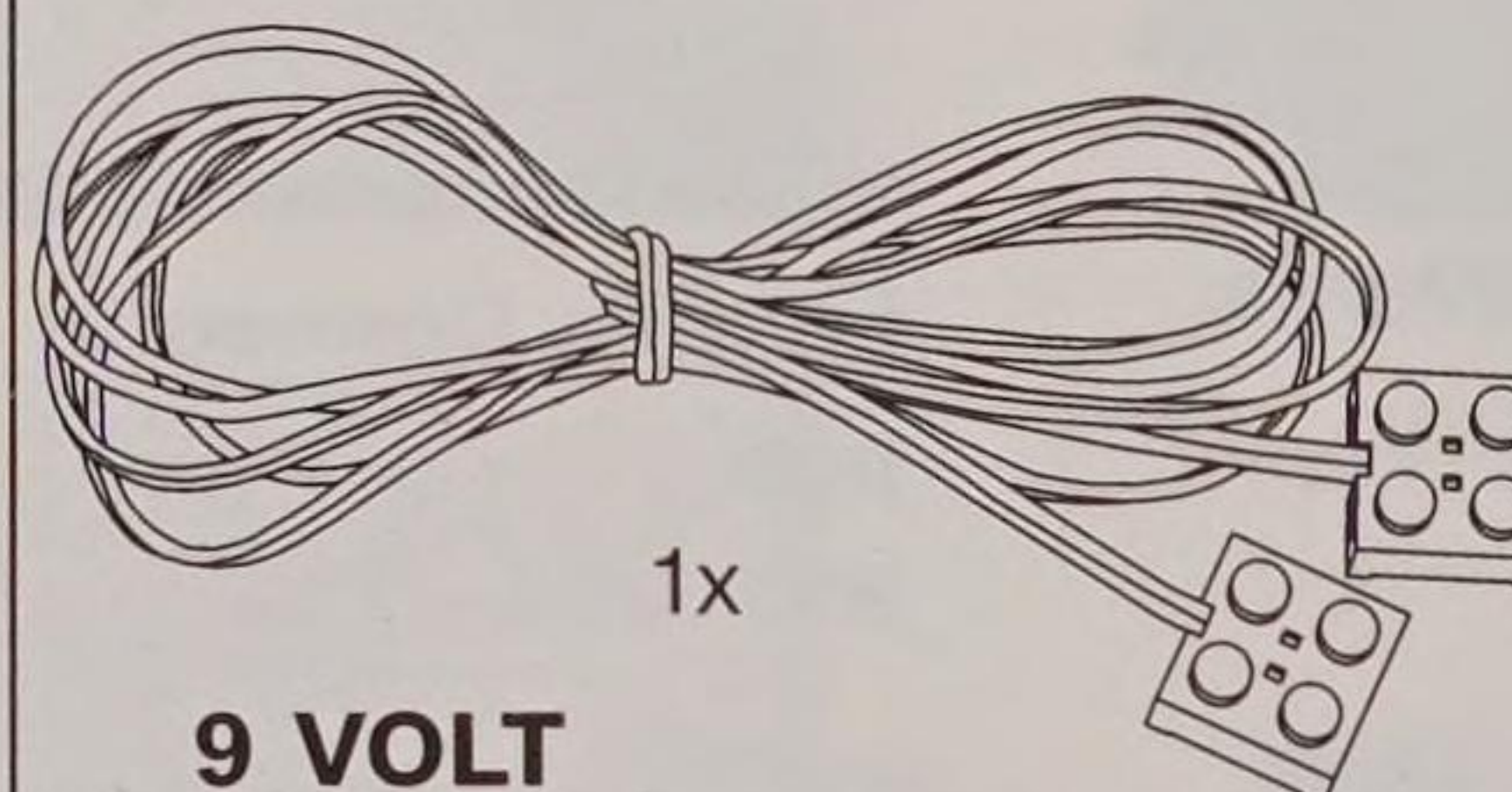
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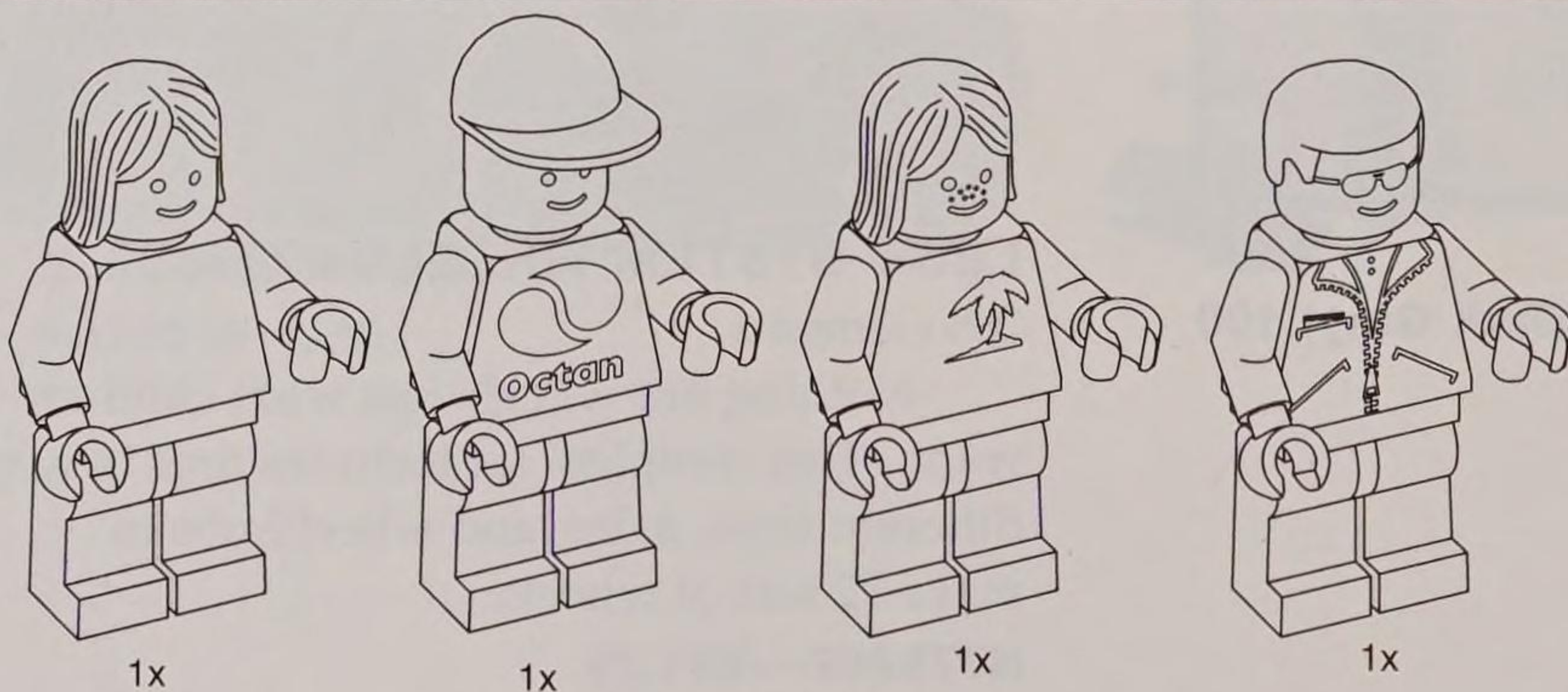
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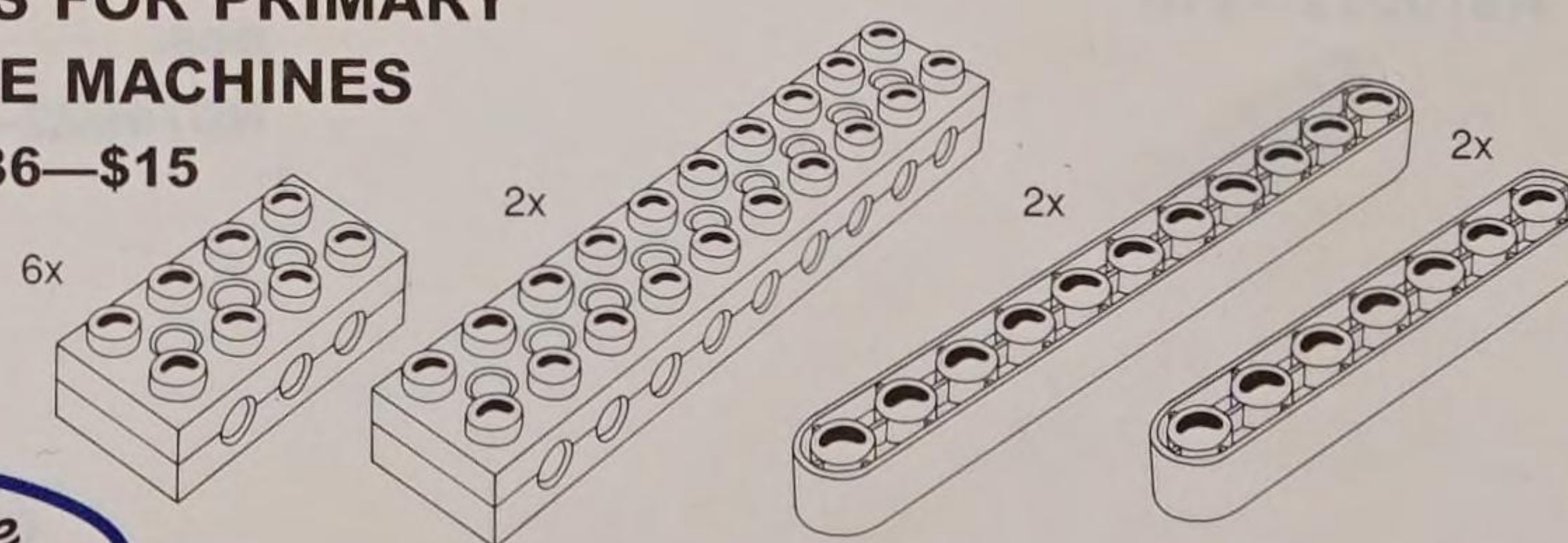


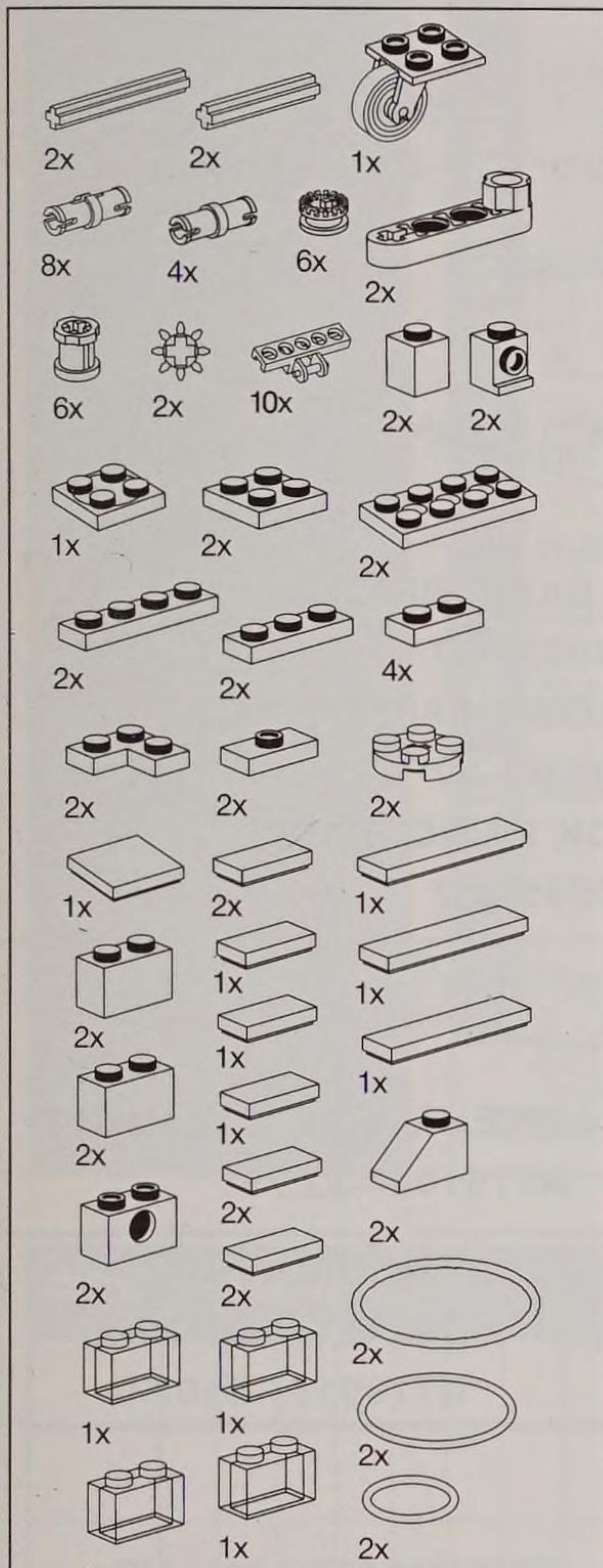
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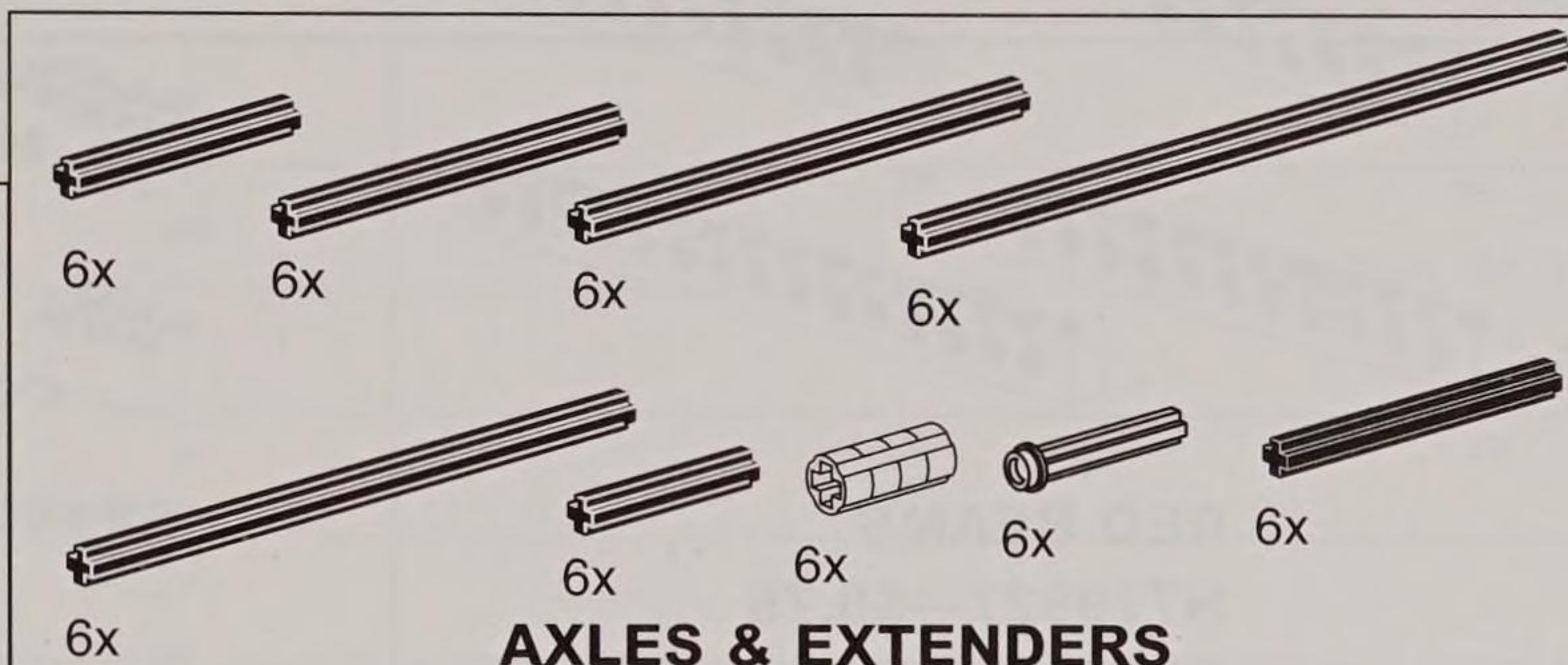
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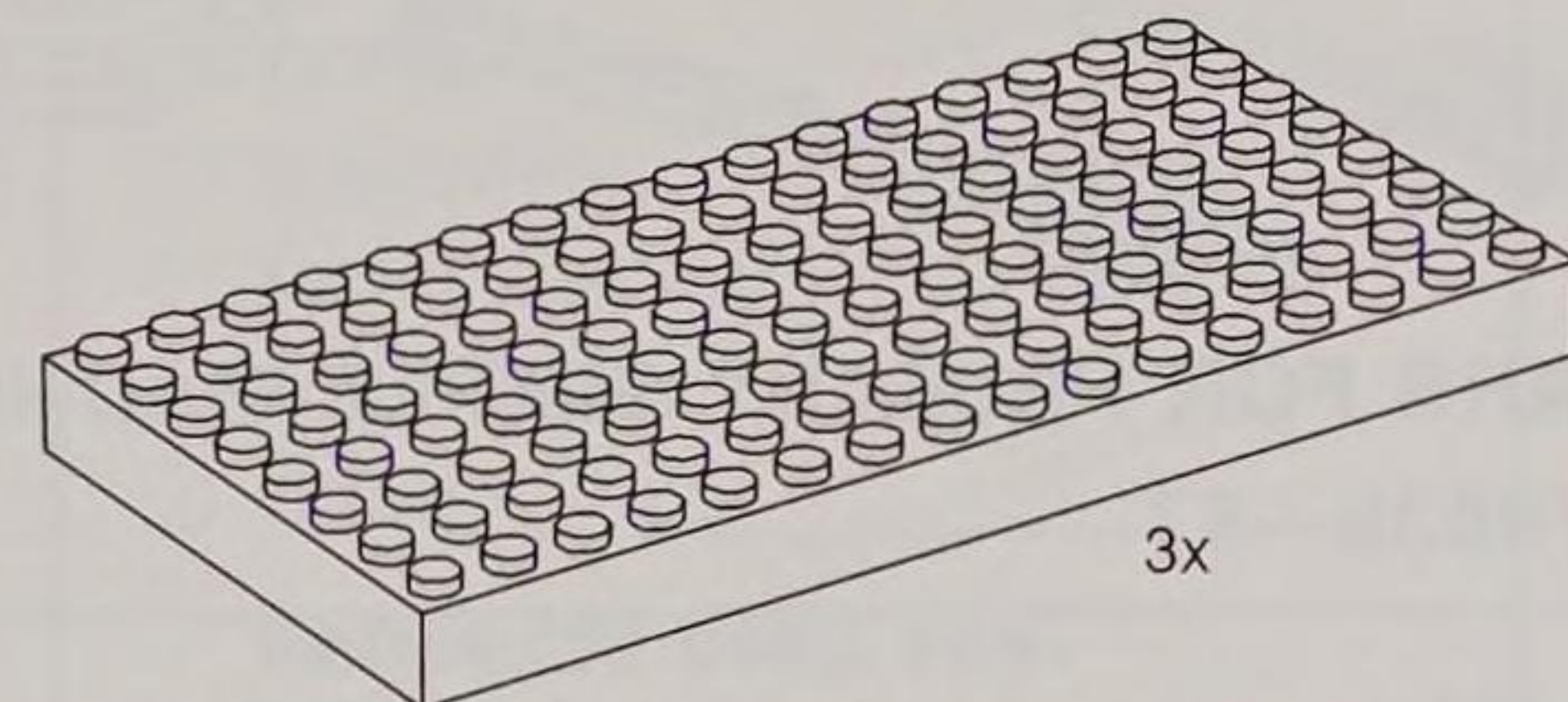
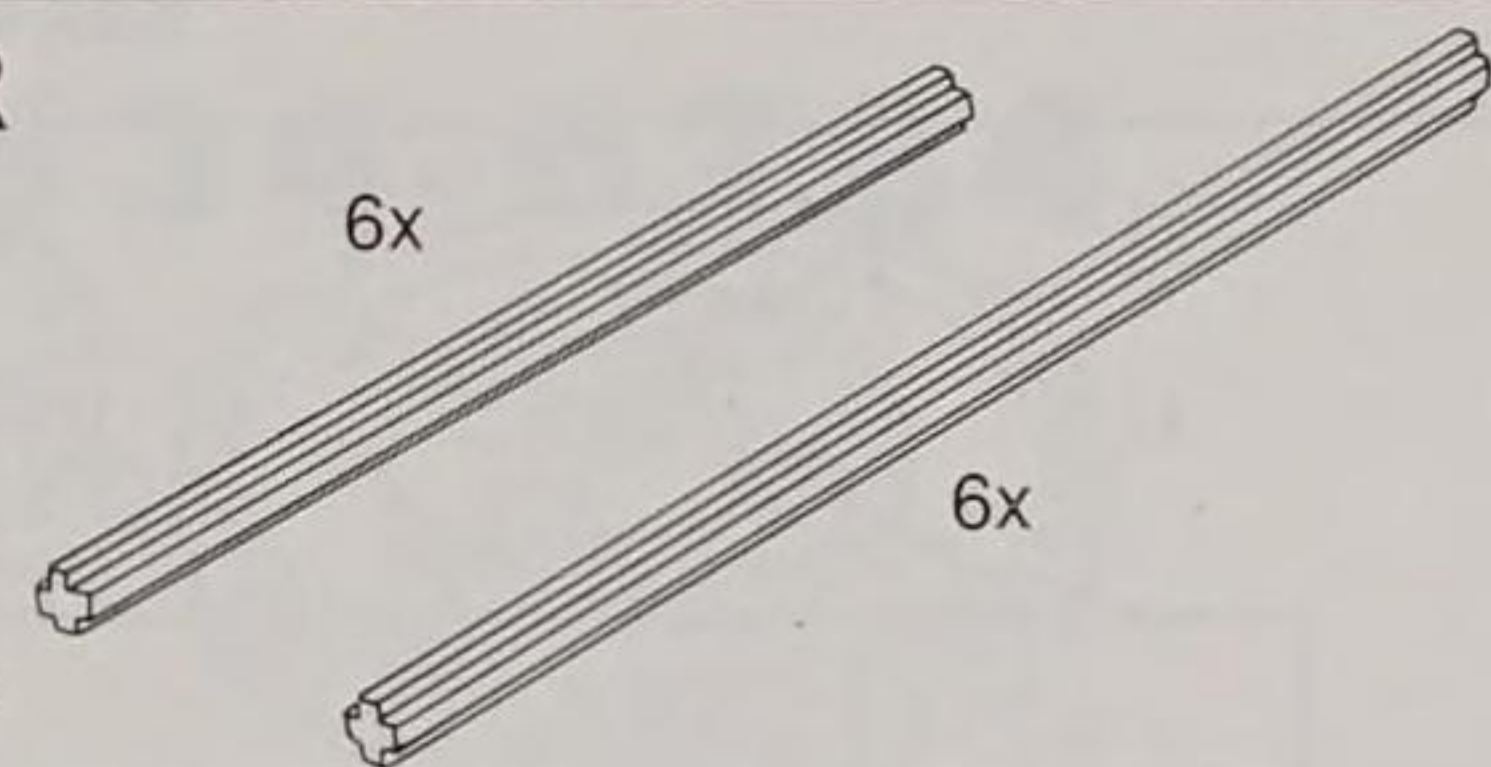


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FOR 979701**
N779958—\$8.75

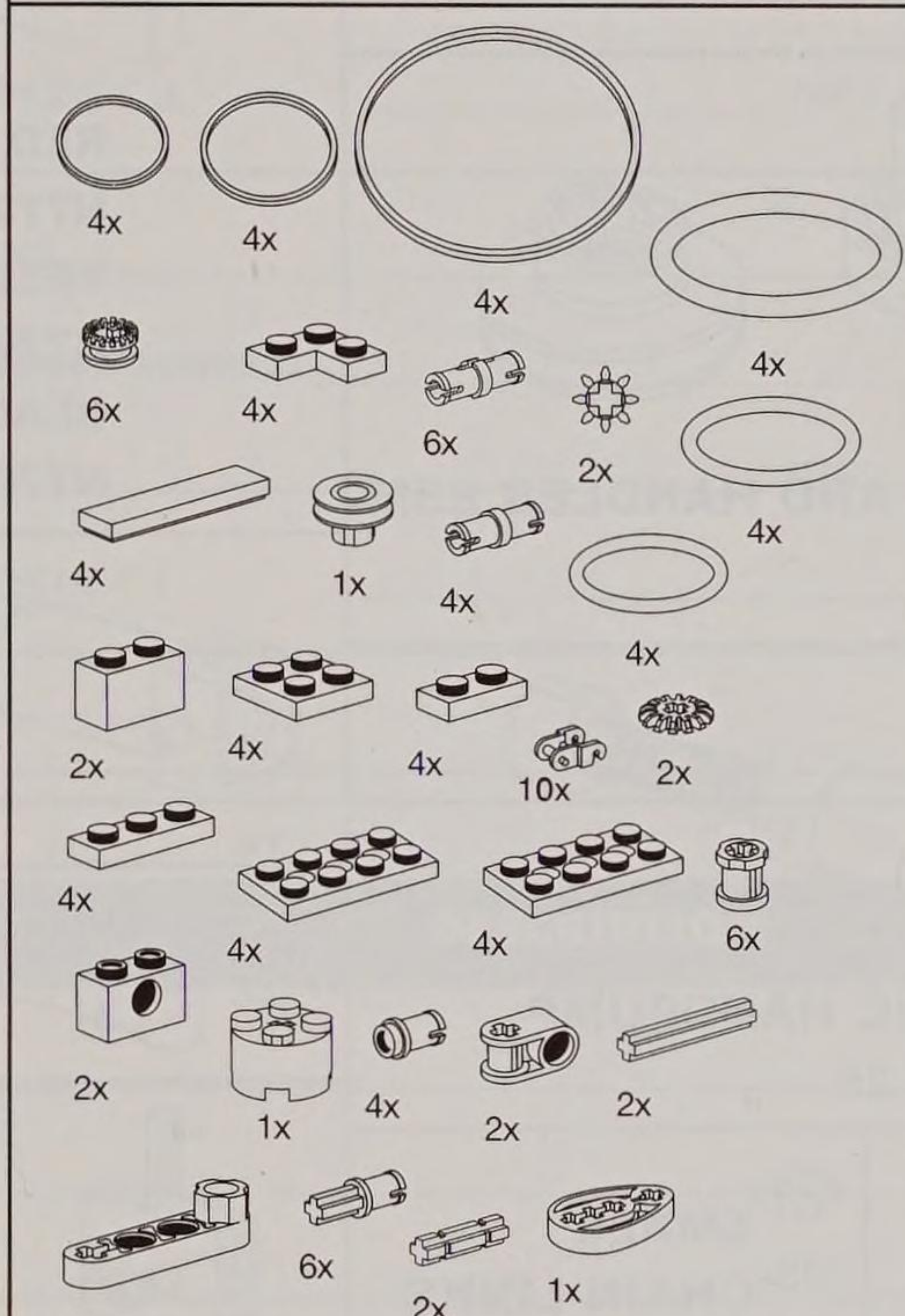


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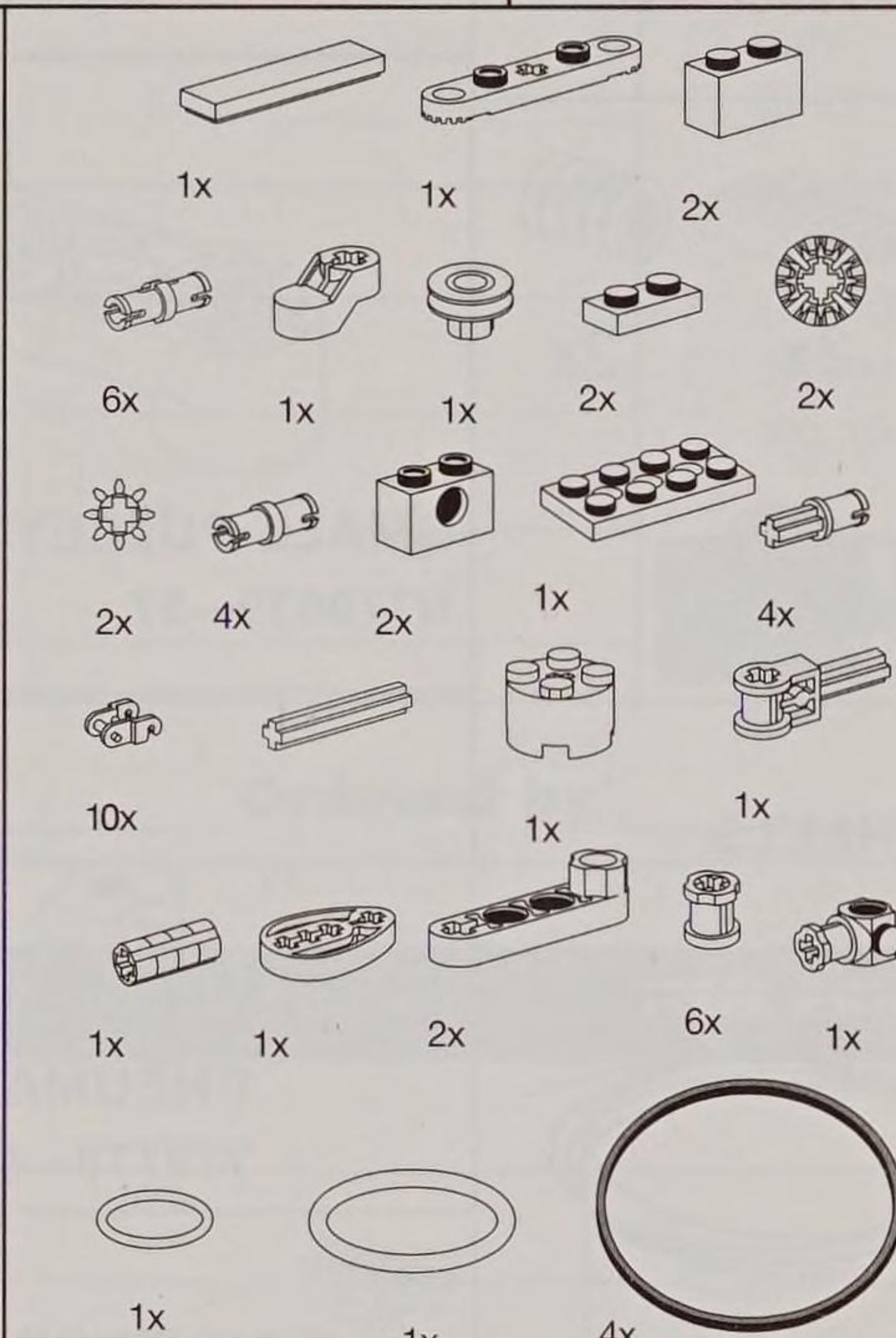
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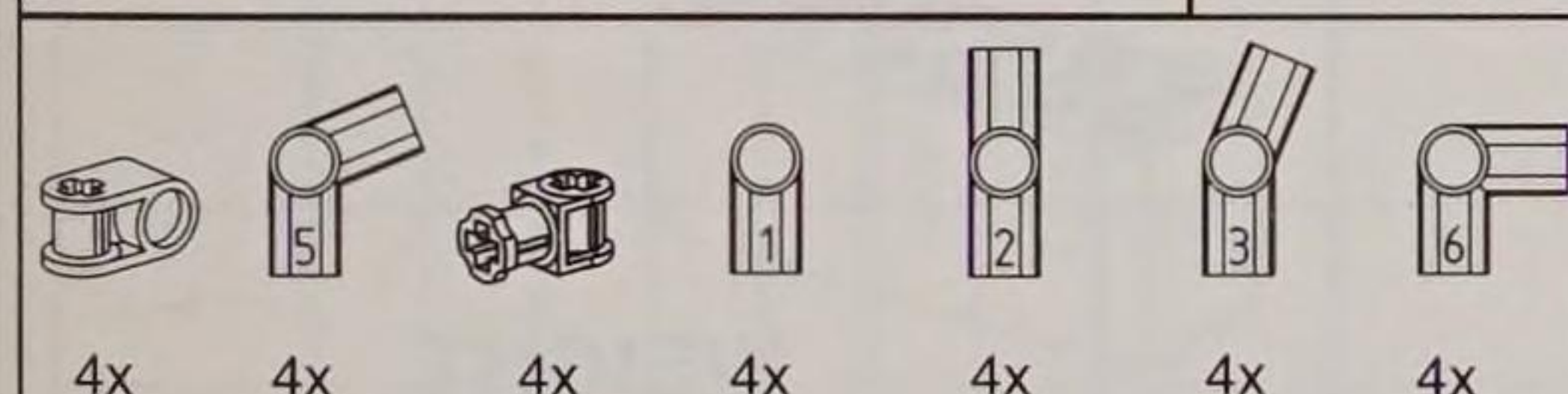
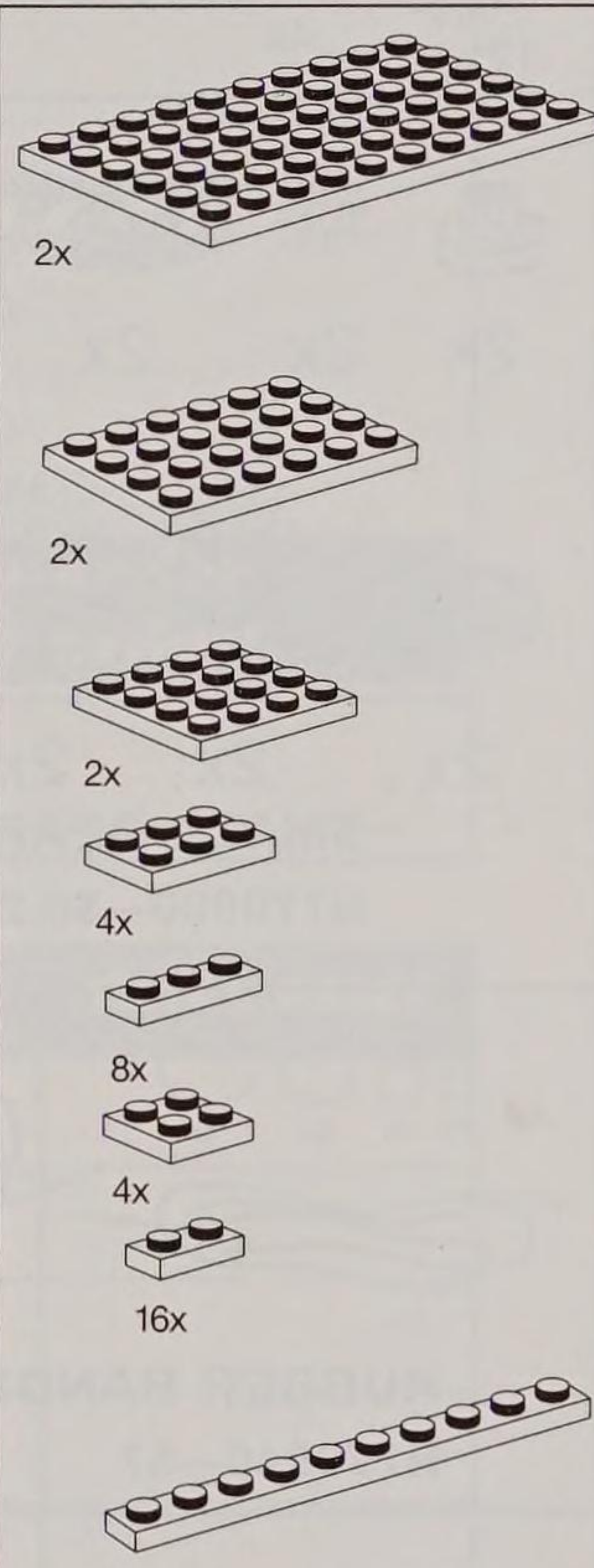
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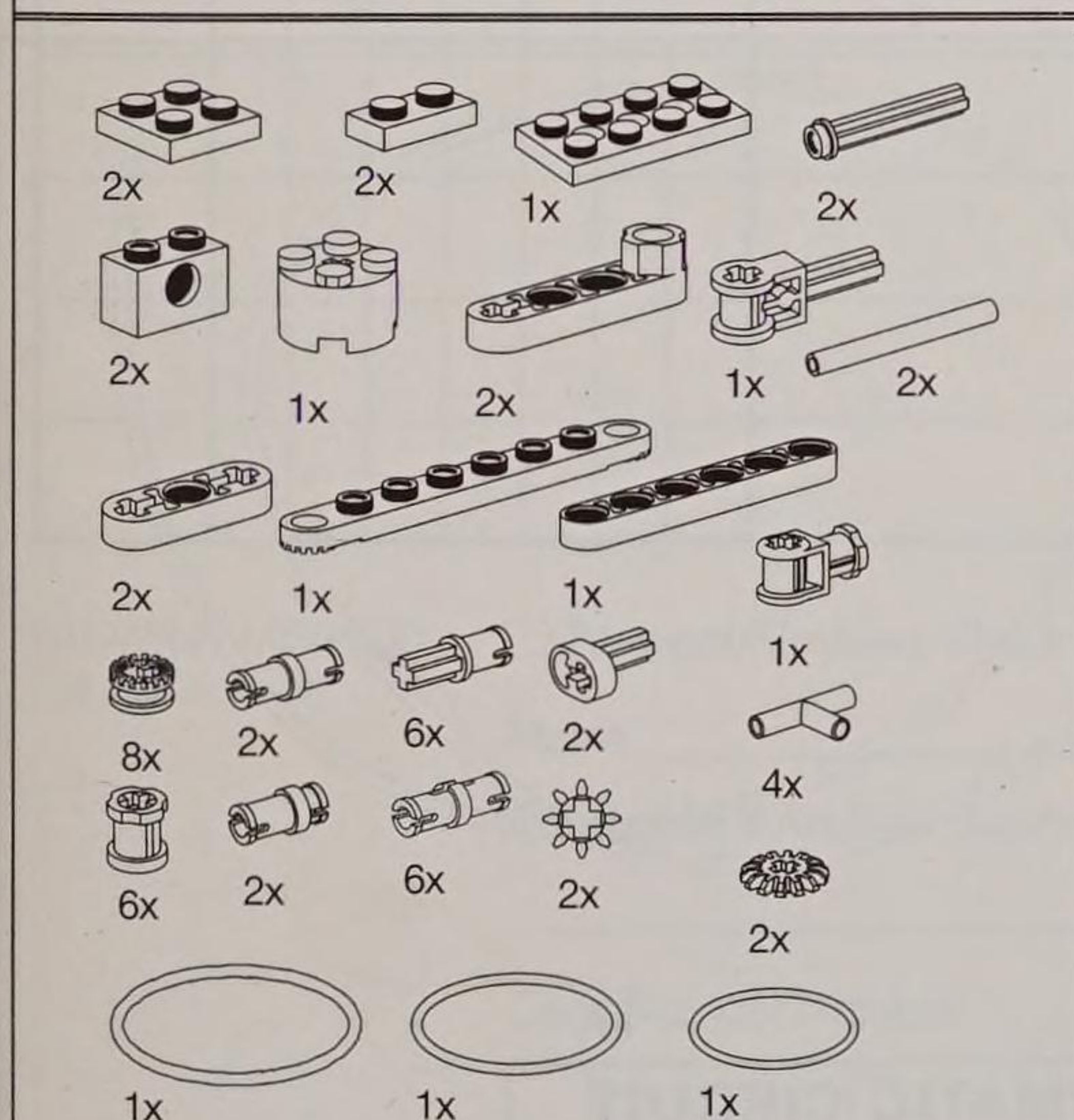
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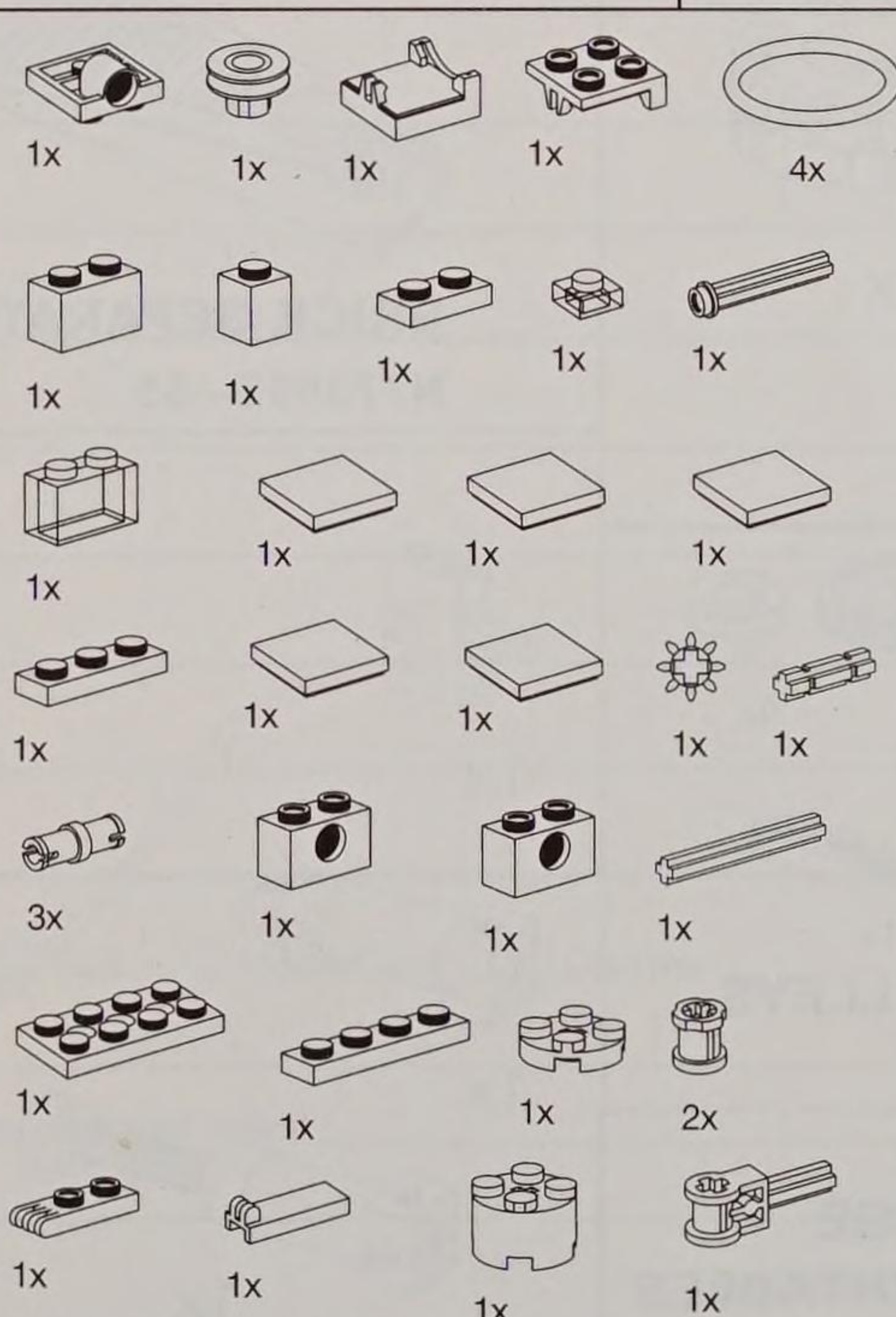
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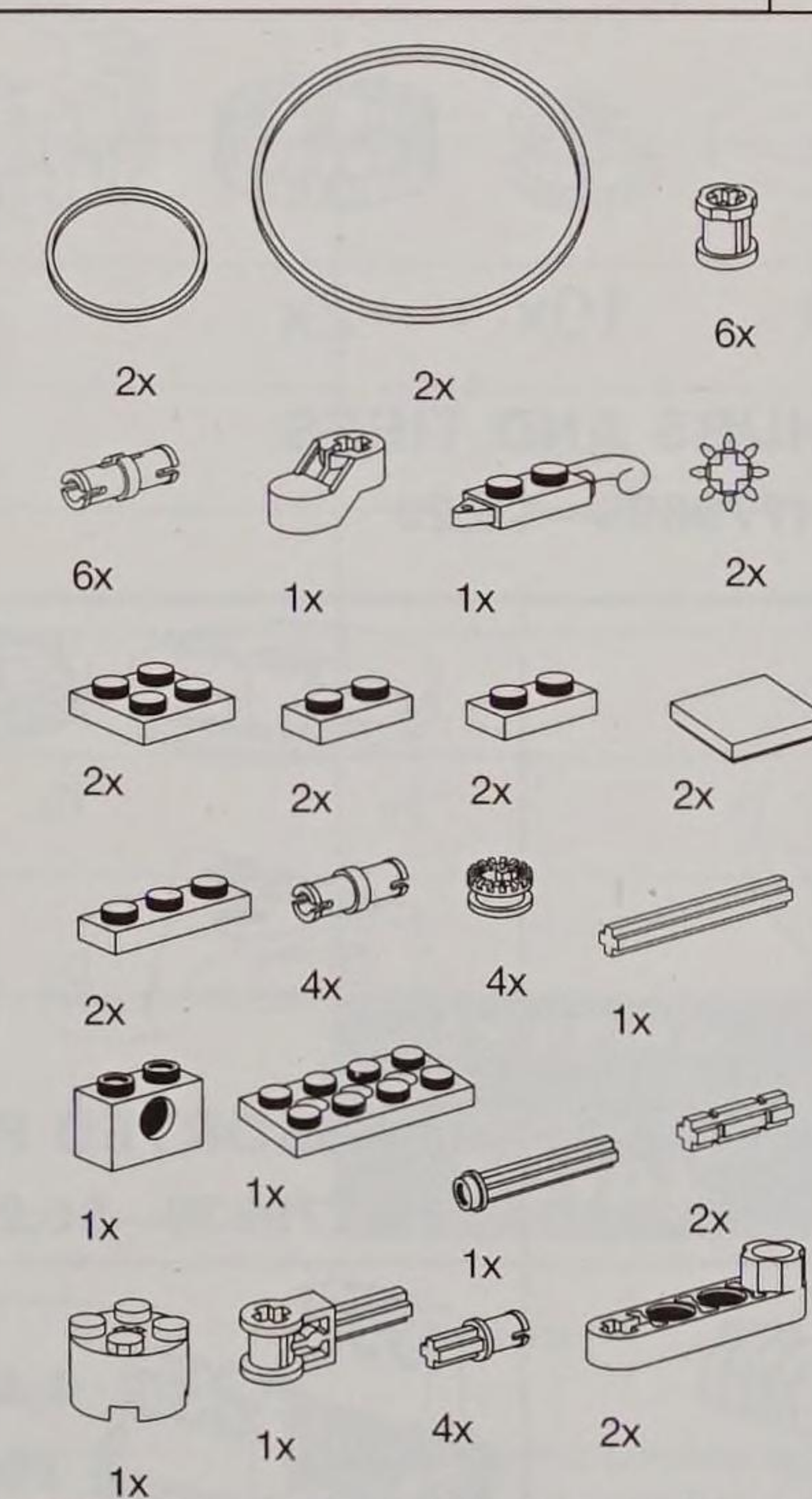
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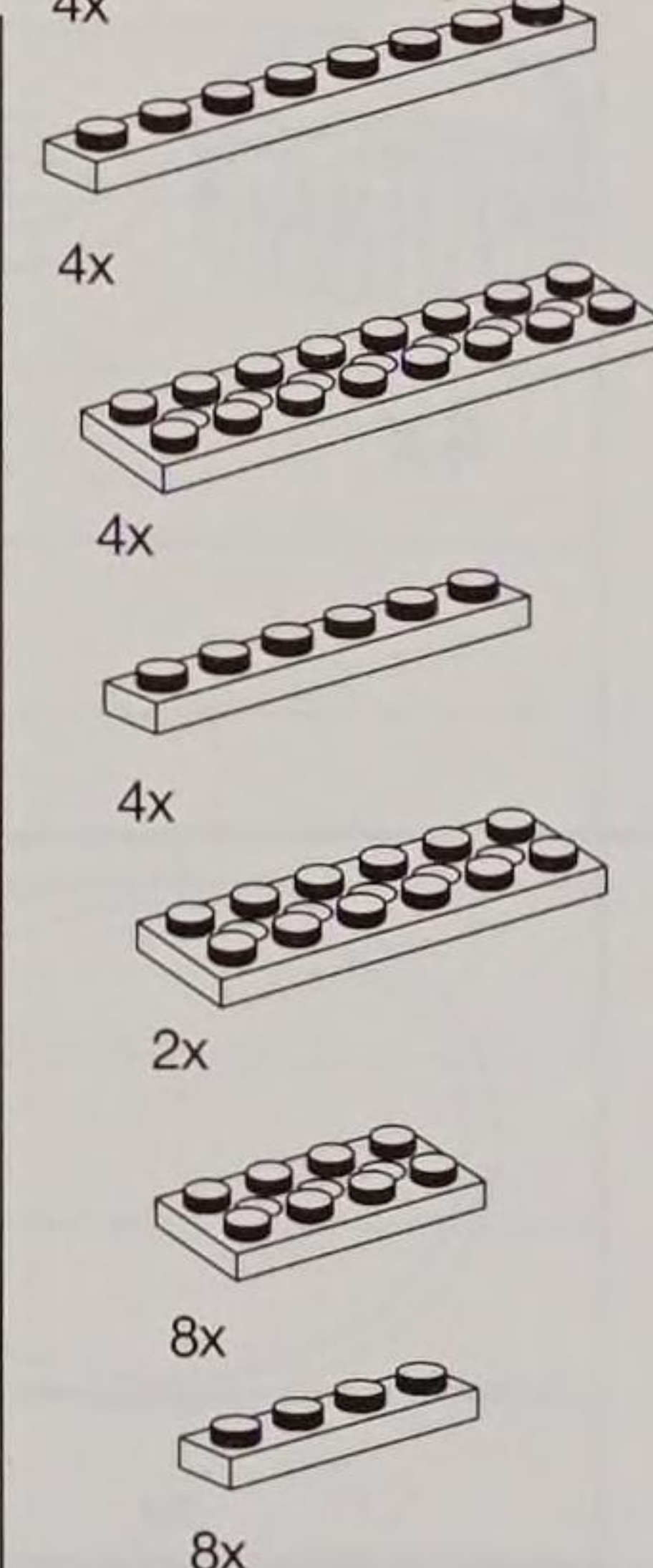
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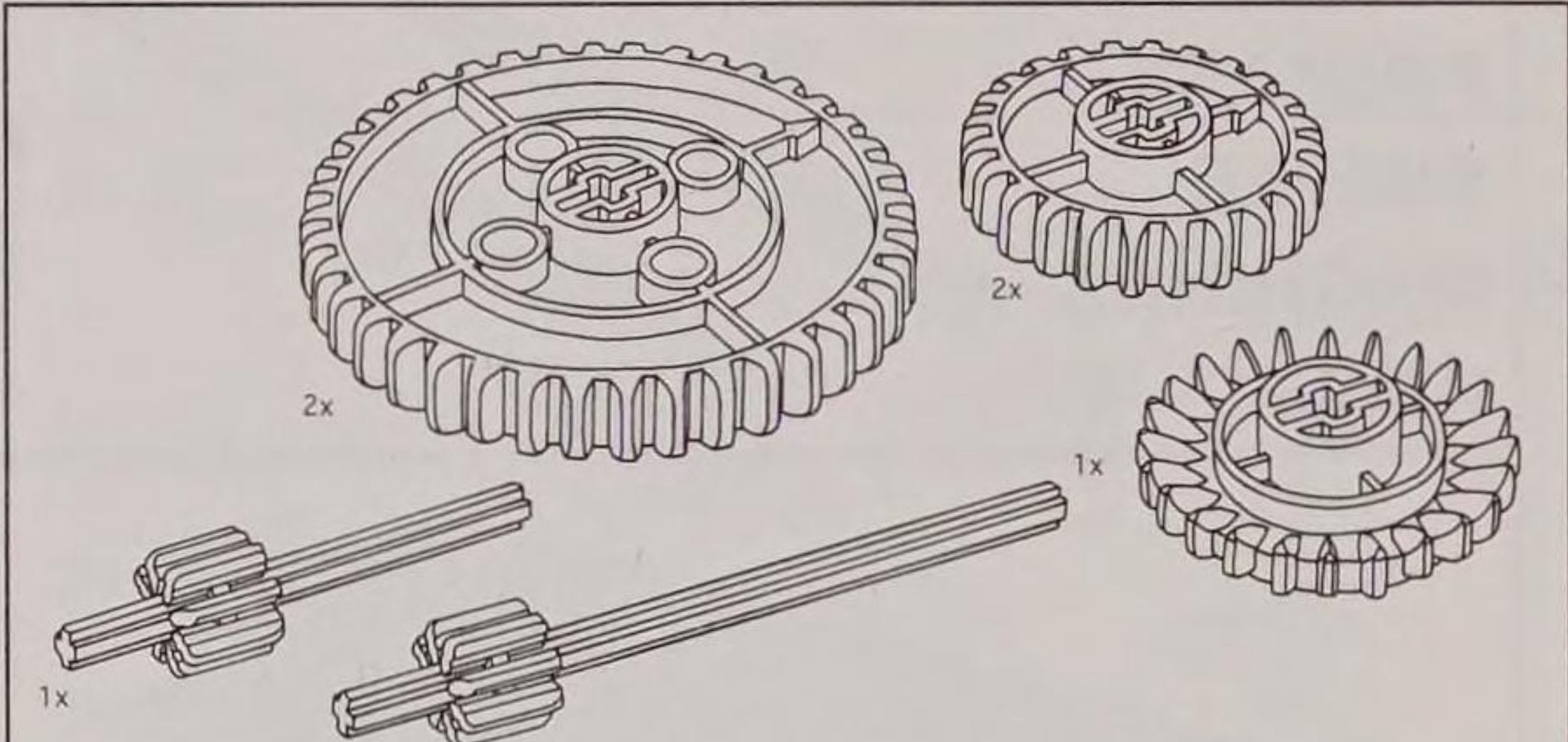
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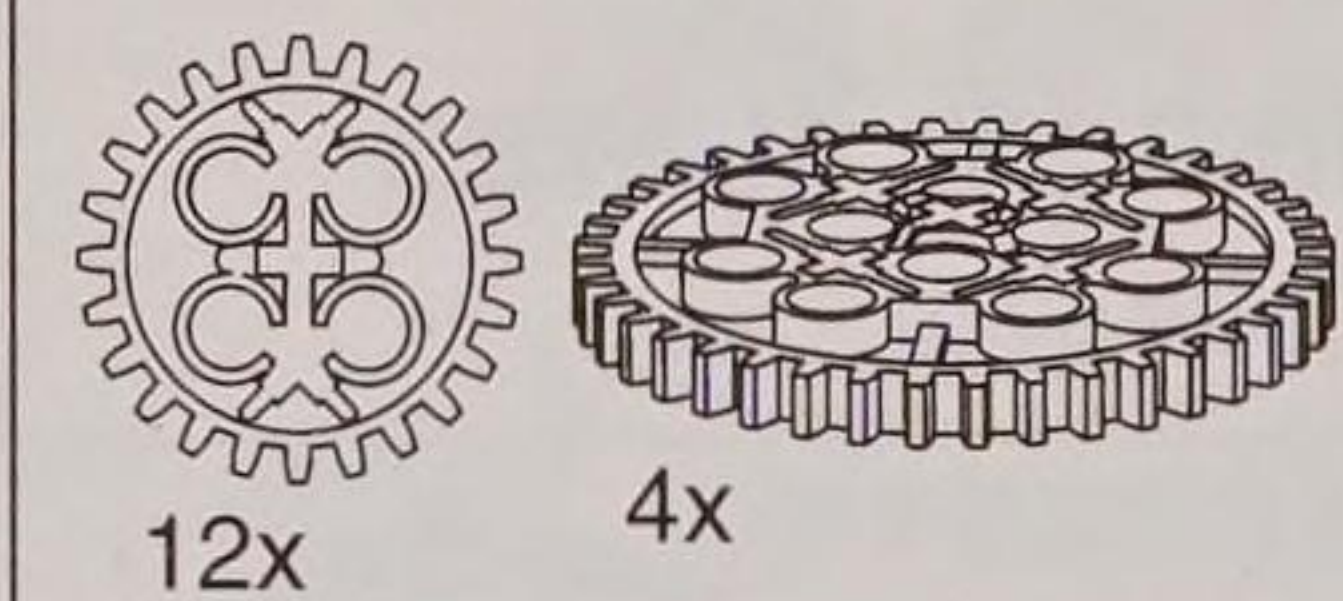
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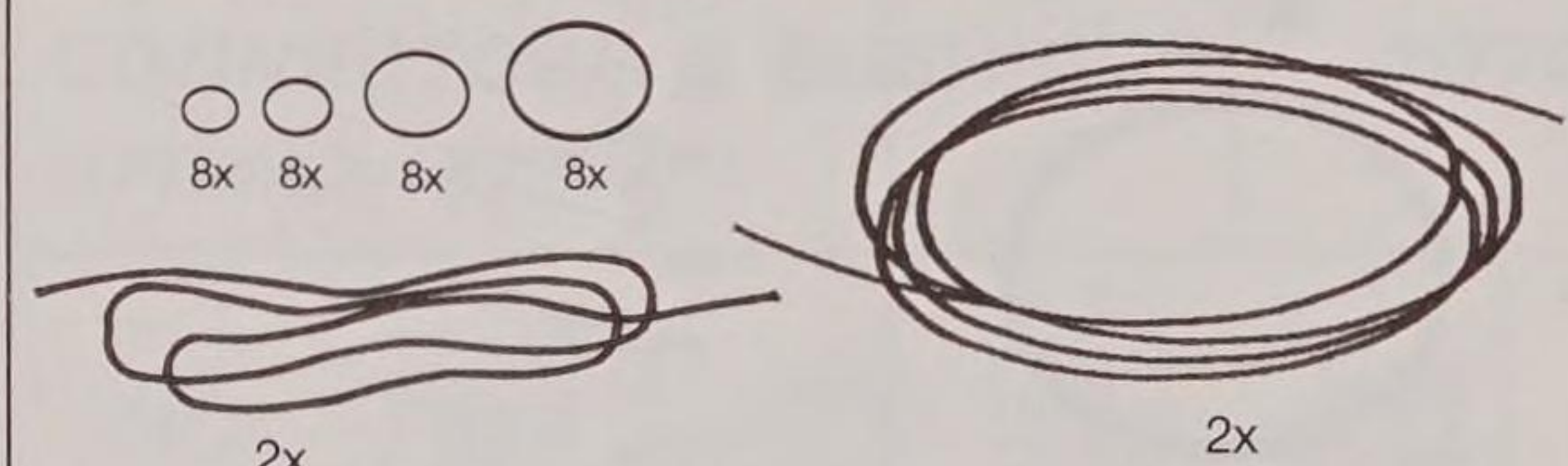
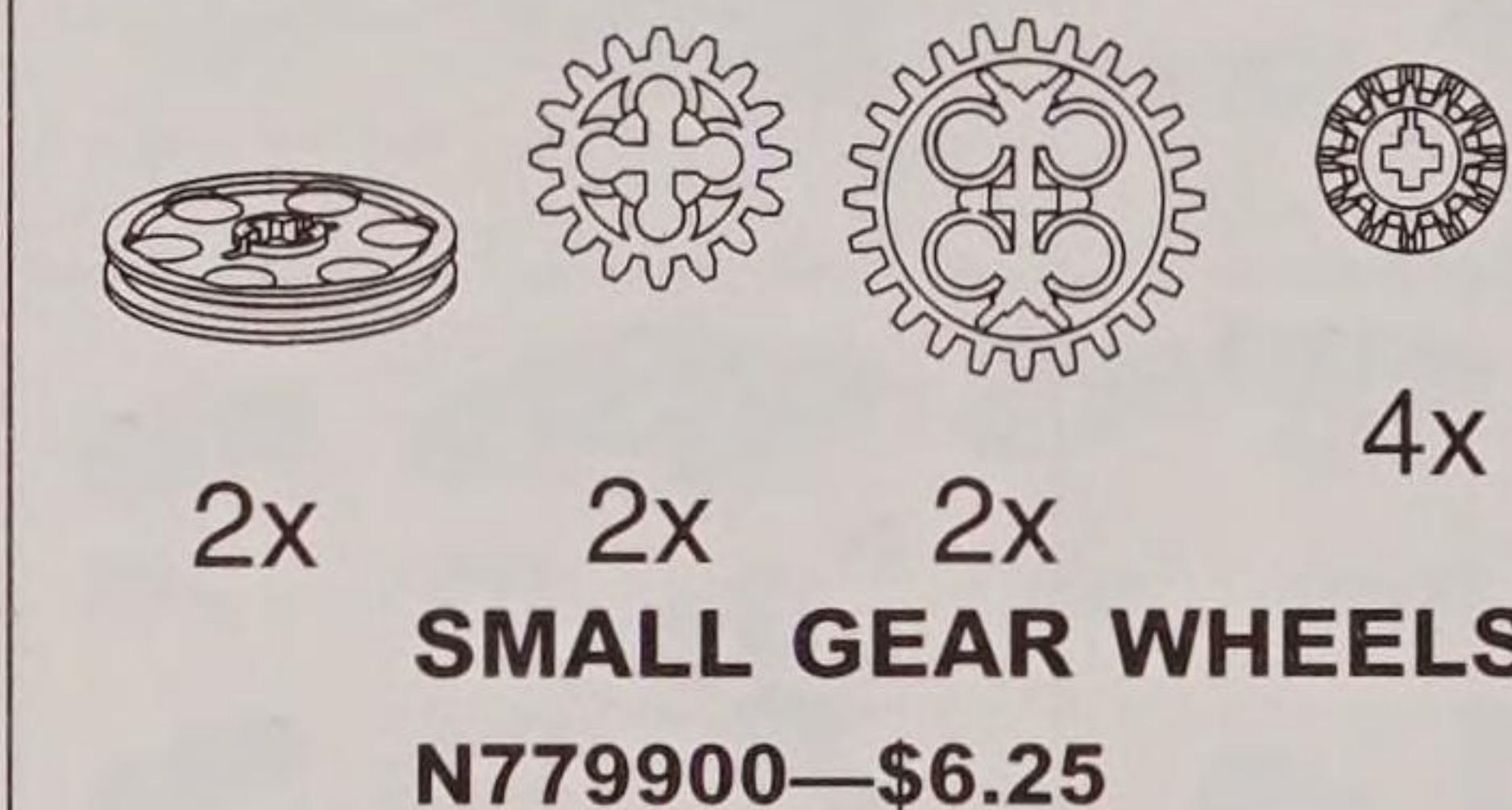
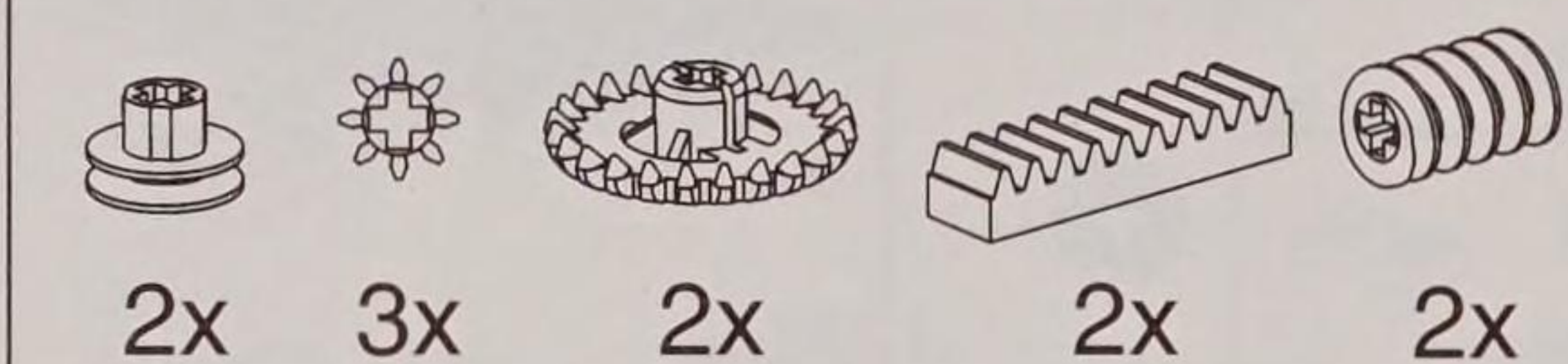
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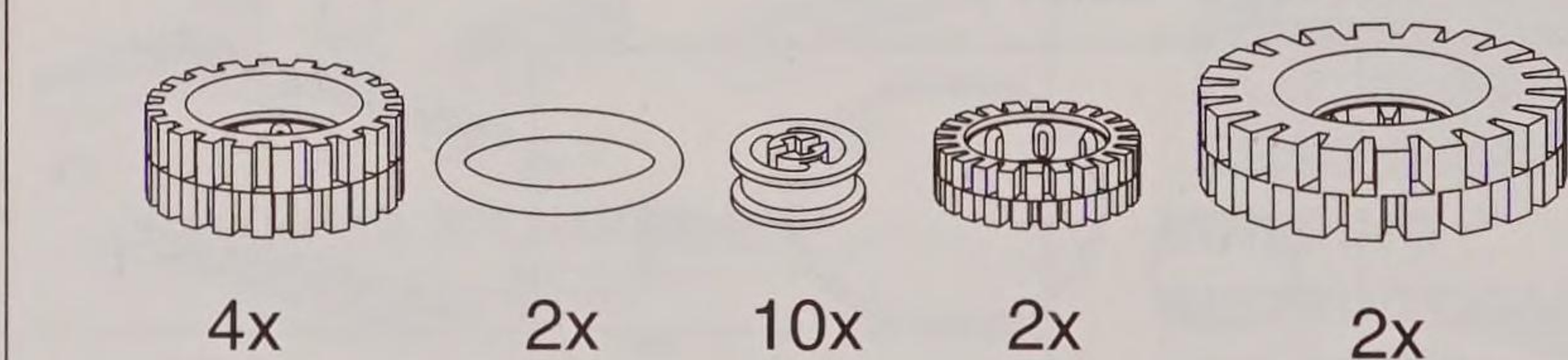
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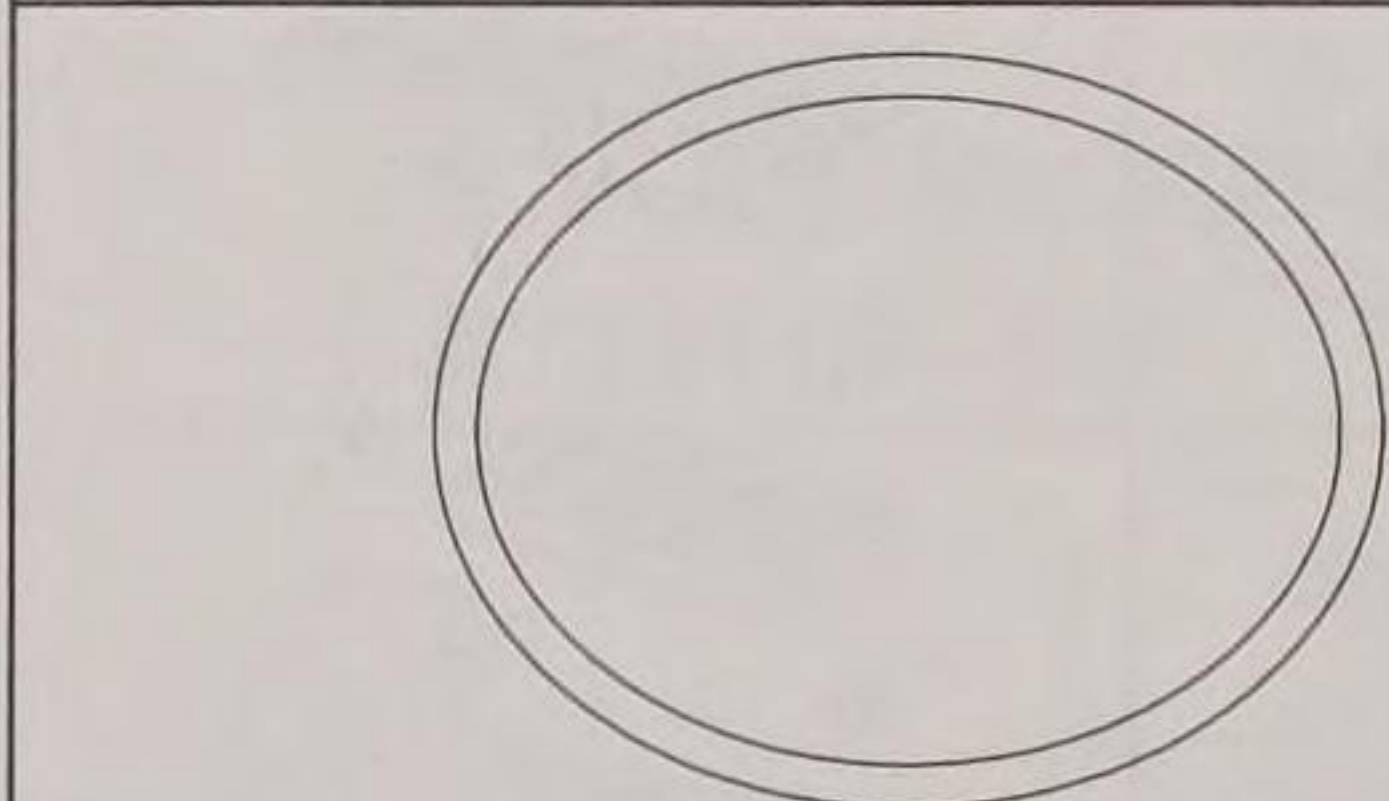
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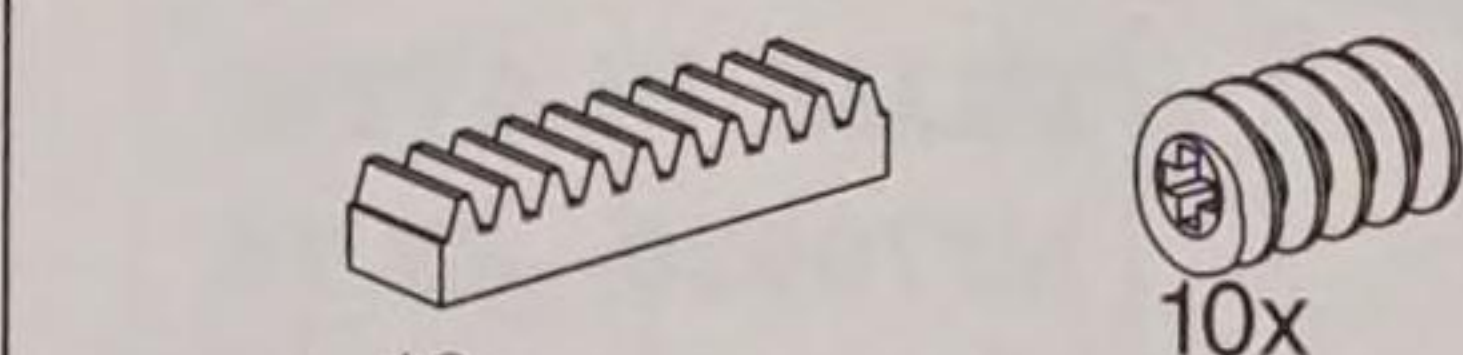
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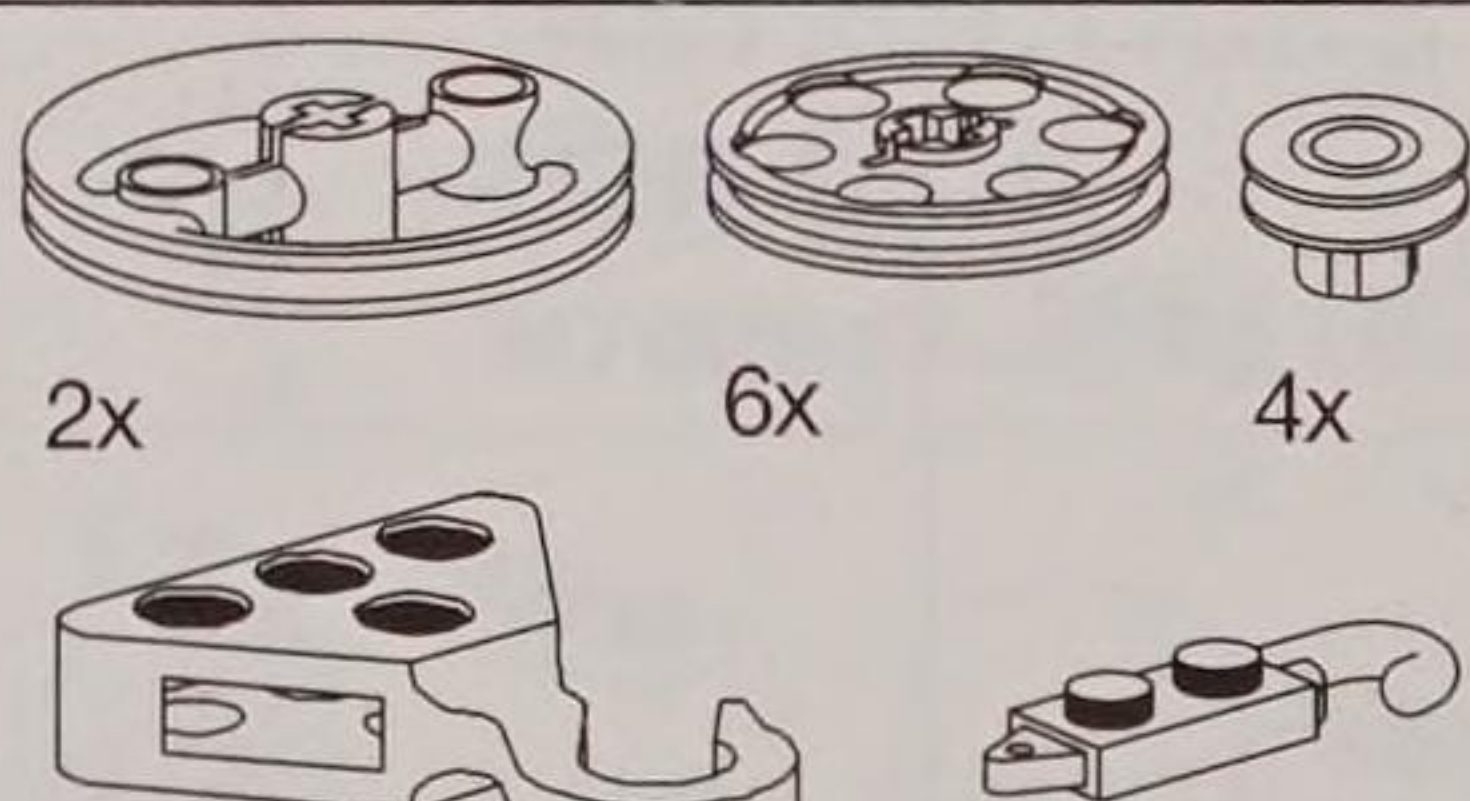
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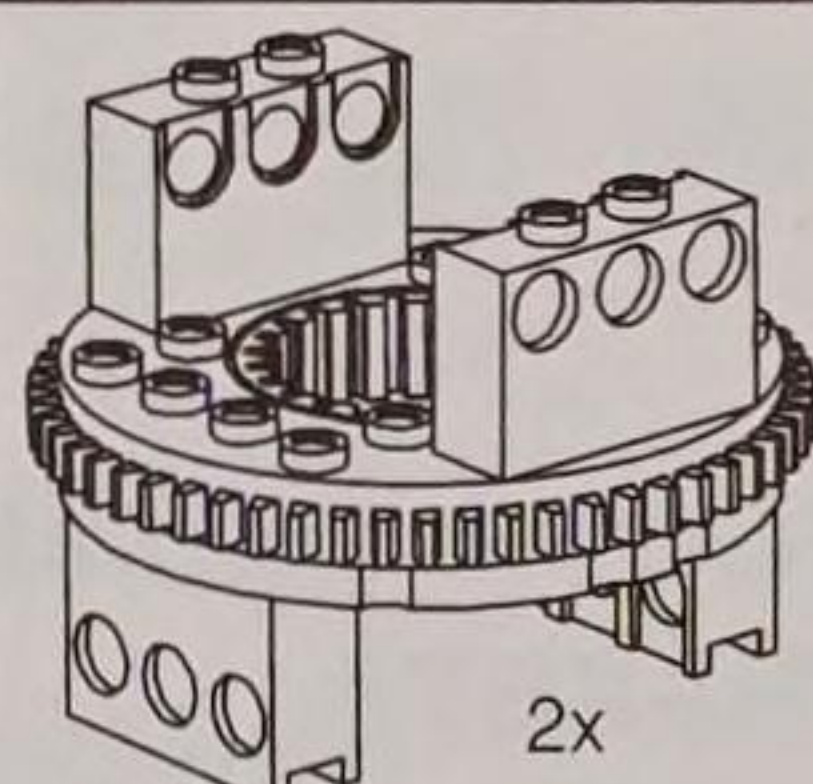
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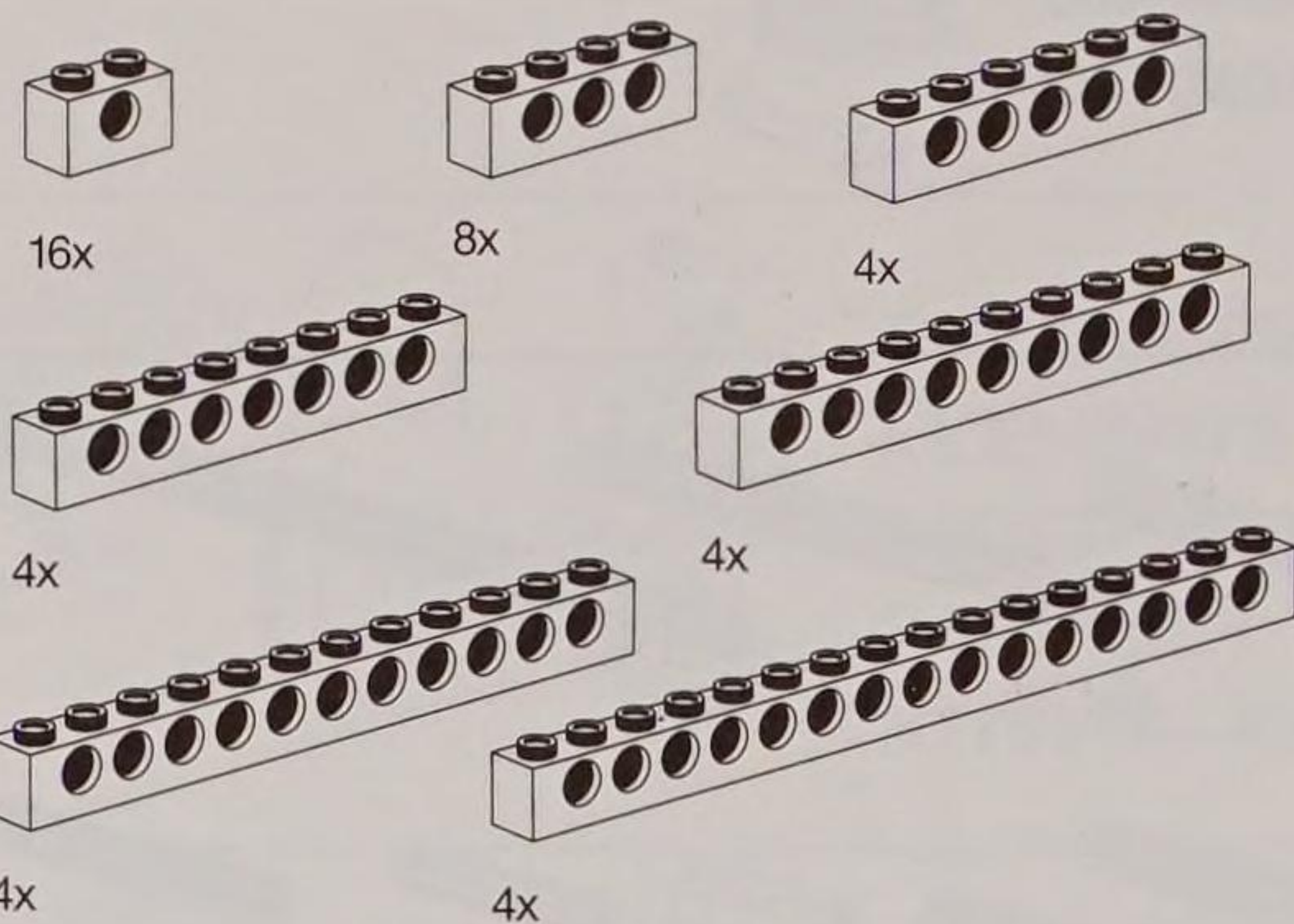
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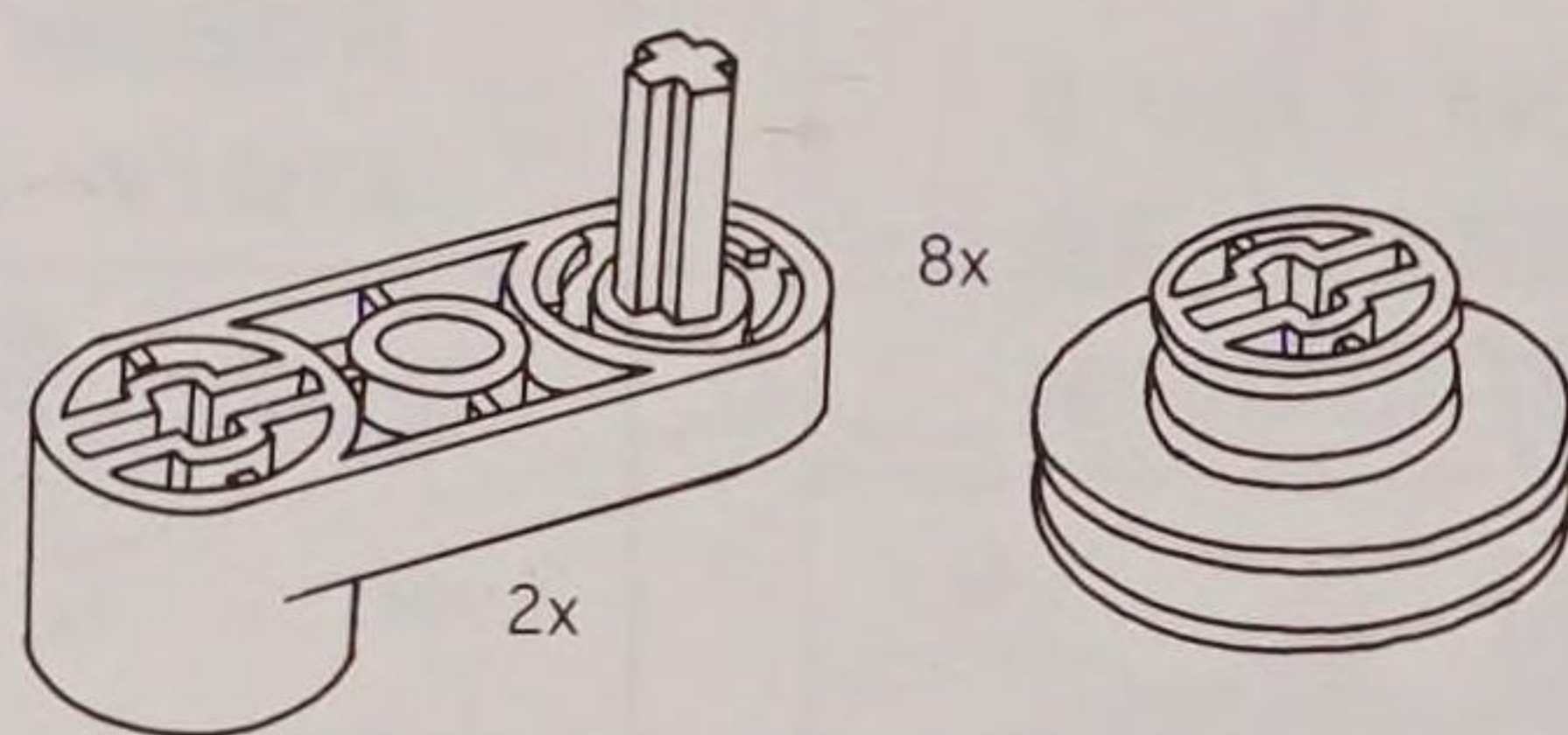
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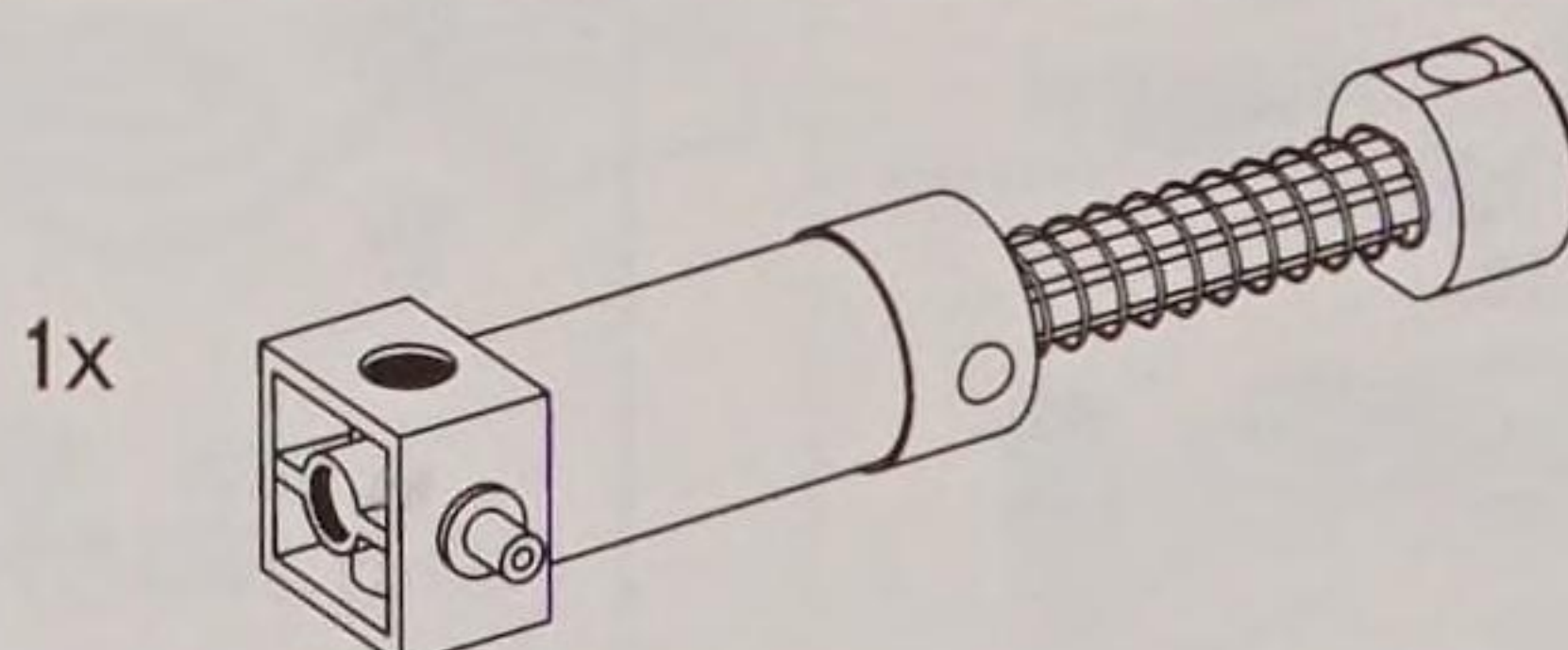
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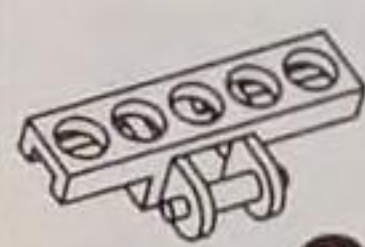
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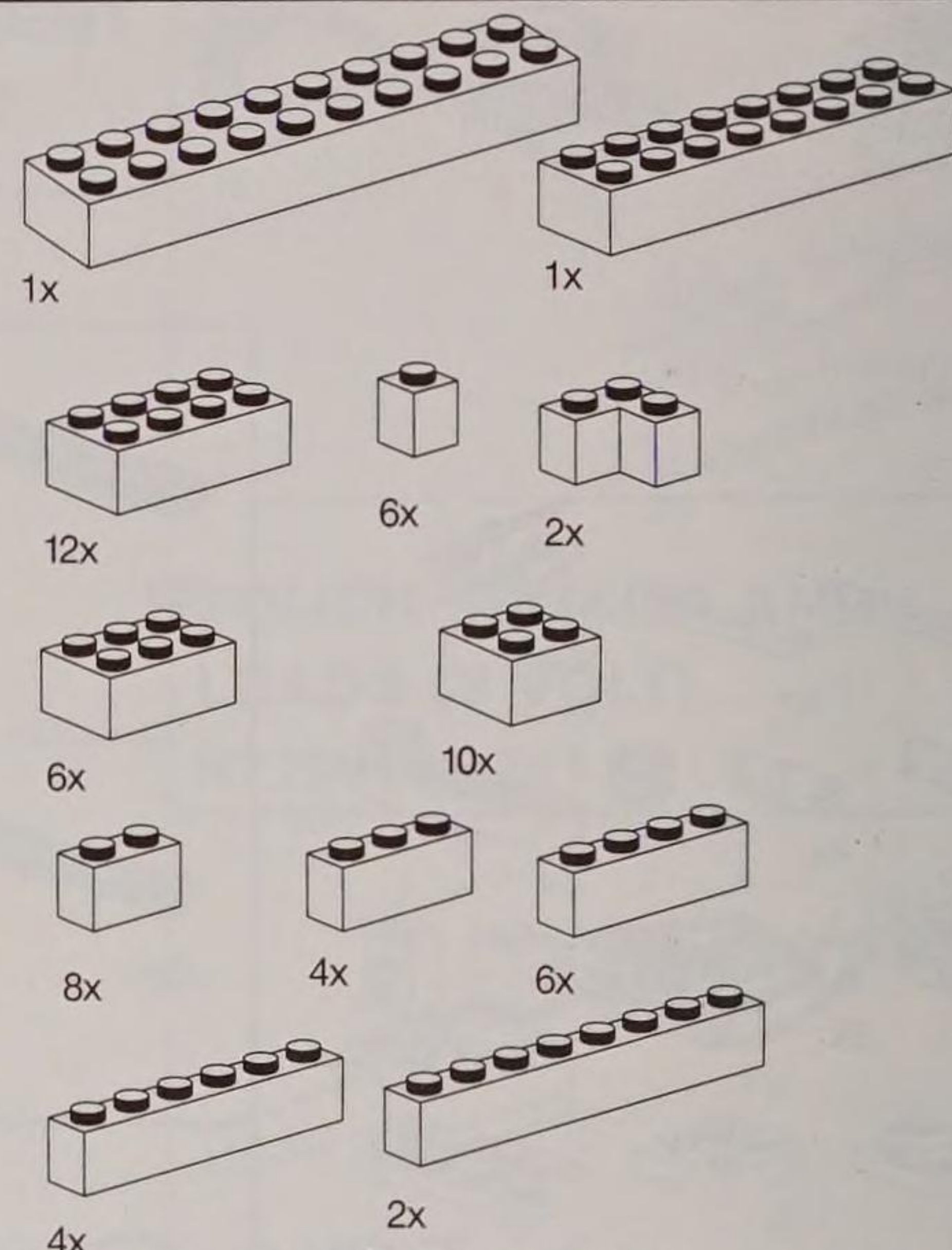
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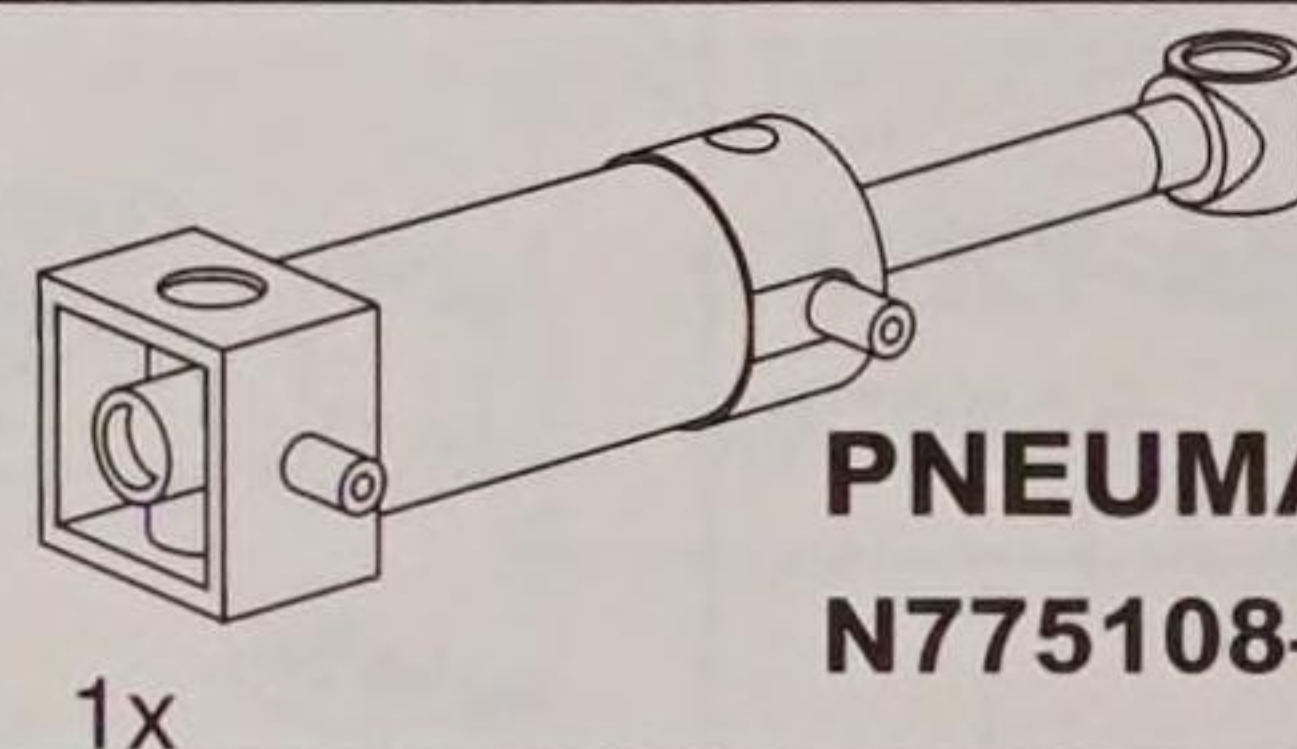
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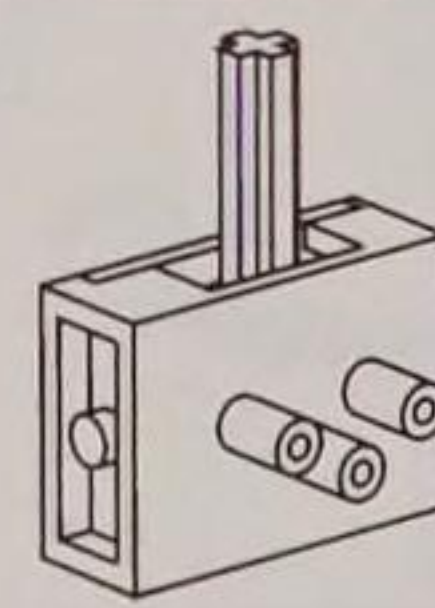
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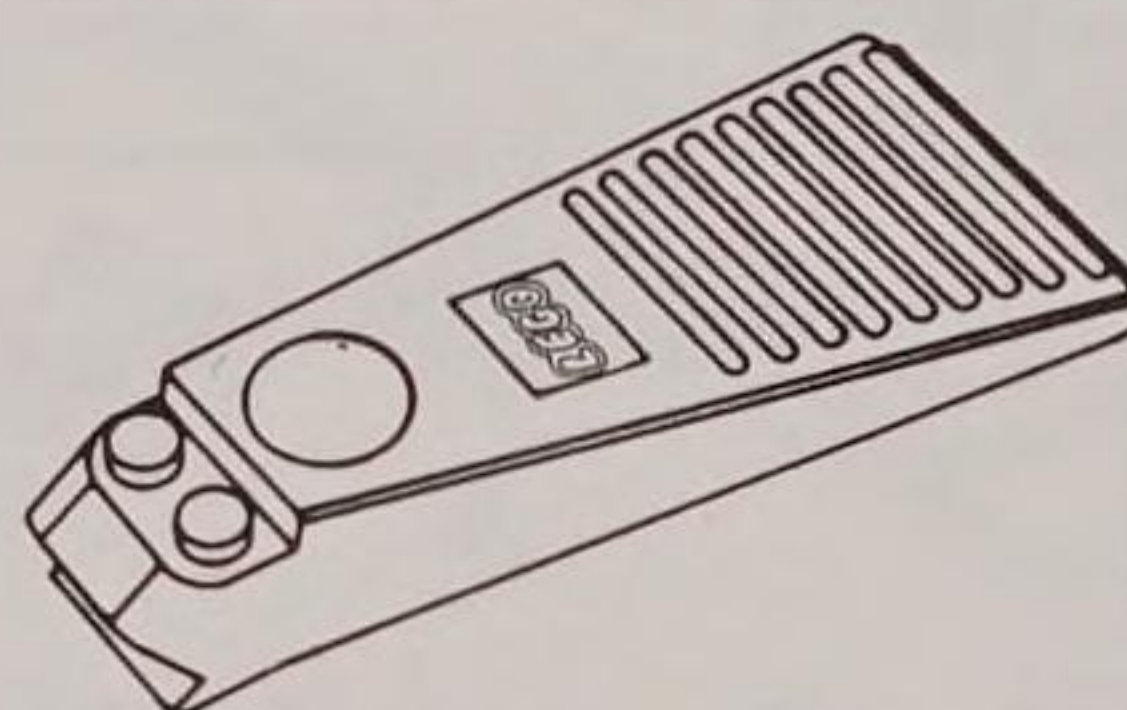
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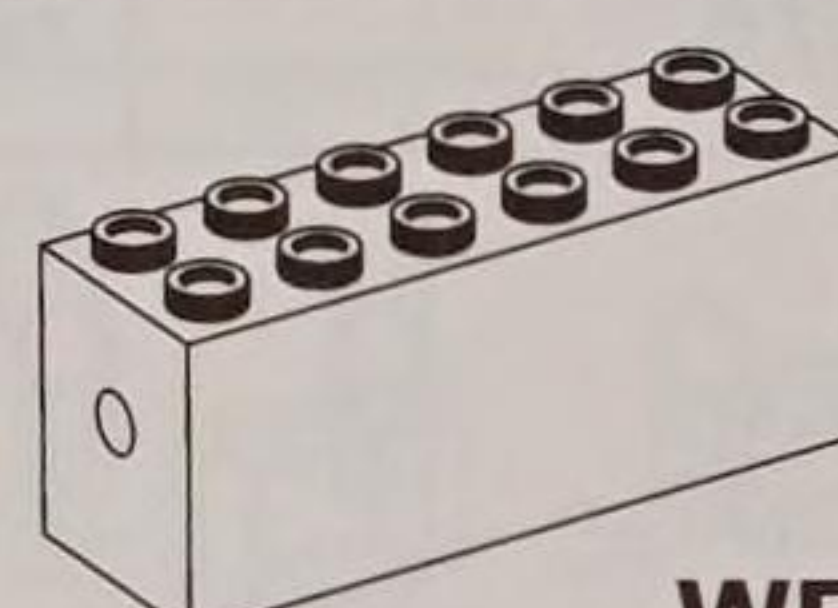
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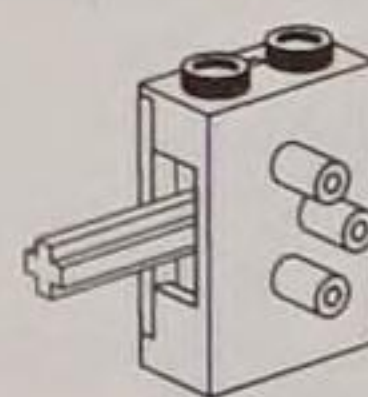
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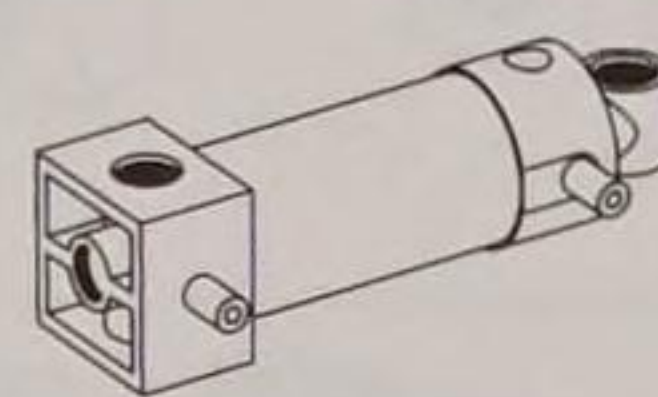
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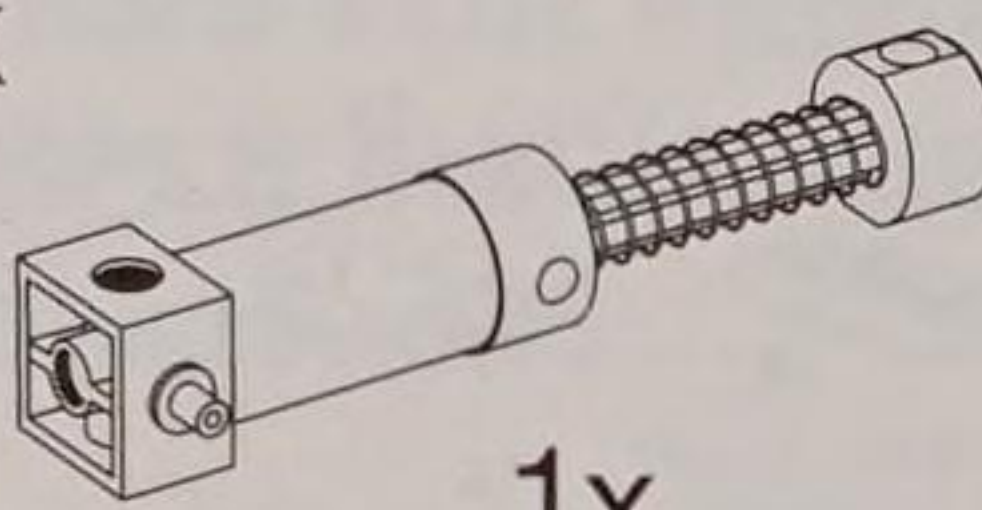
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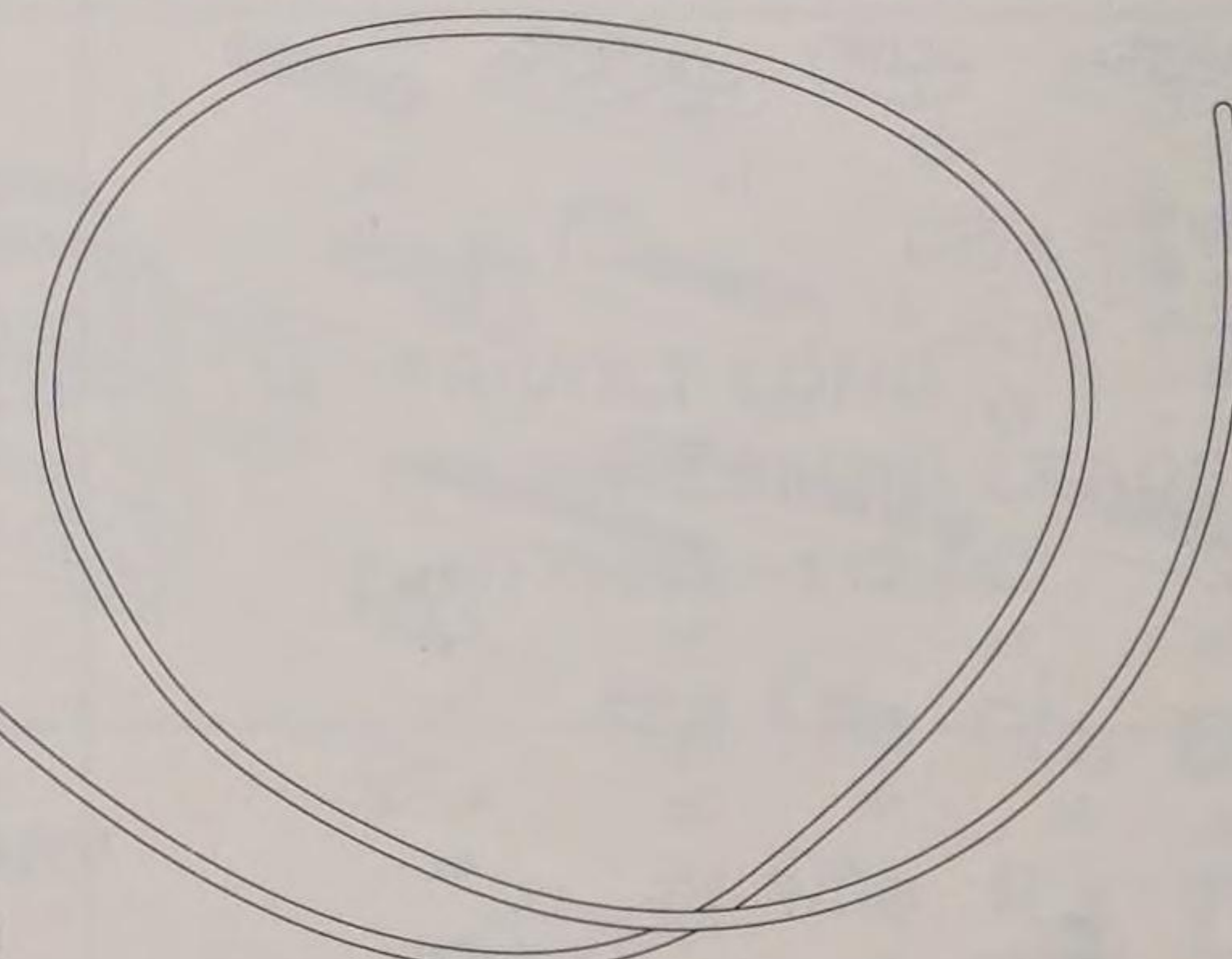
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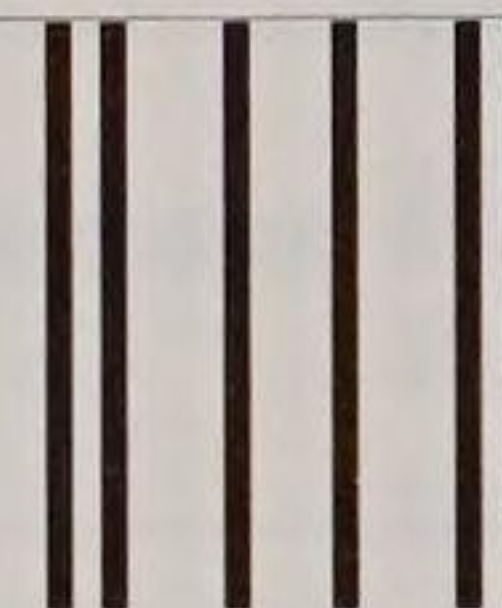


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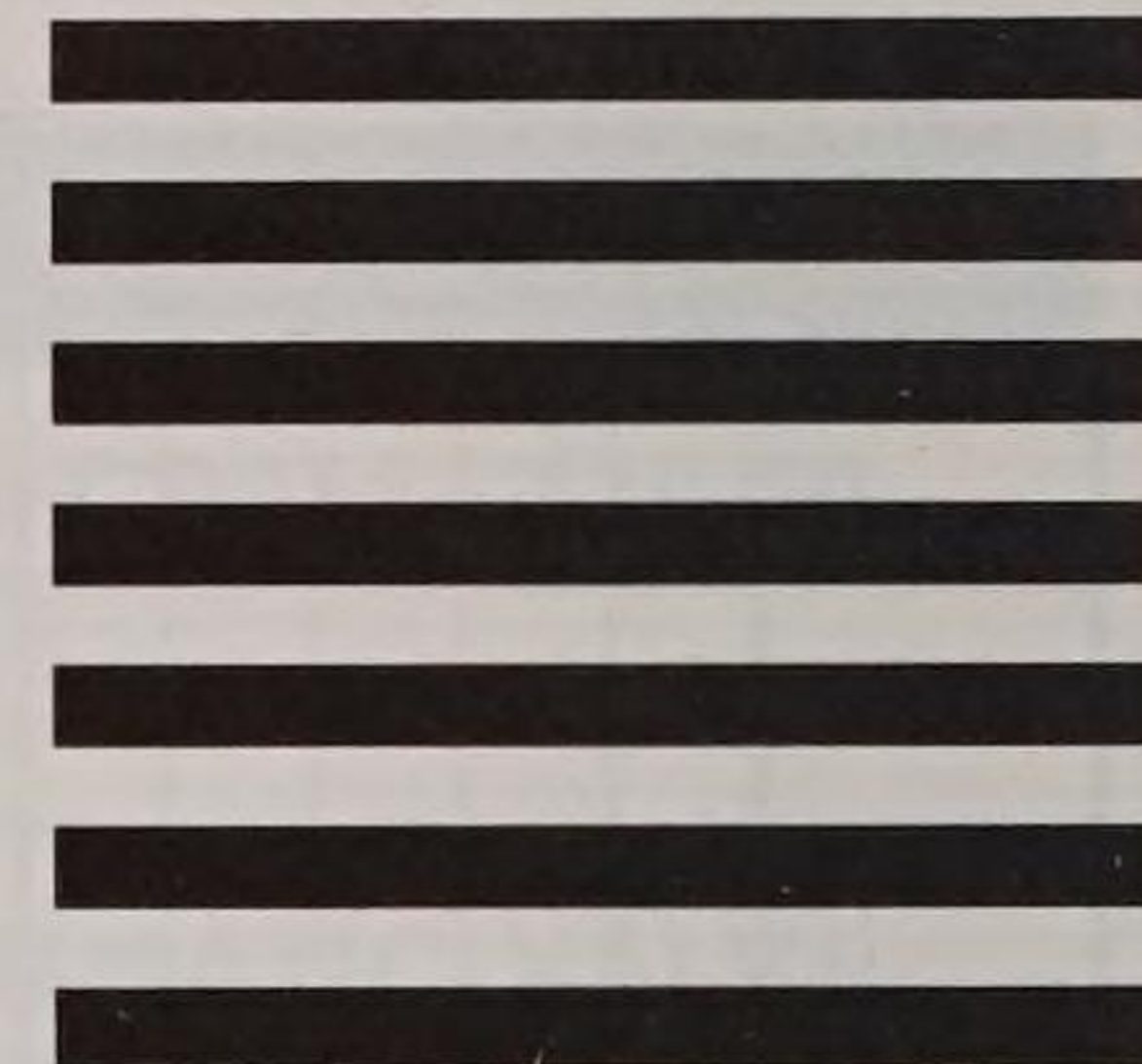
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WHAT IS THE SPECTRUM SYSTEM?

The Spectrum System is a Math, Science and Technology program. It is a hands-on/minds-on cooperative learning system for all students in grades kindergarten through six.

The Spectrum System is defined so that:

- Students learn and complete hands-on solutions together as a *Crew*.
- The curriculum is delivered as a *Crew Mission* to be achieved by the Crew.
- The *Crew Center* (the work space) may be added to existing classrooms, or several Crew Centers may occupy a room and serve as a Math, Science and Technology lab.
- The professional development seminar prepares the teacher to coordinate, manage and teach the Spectrum System.



The Spectrum System Learningsphere™ is a global learning space in which students and teacher achieve the goals and objectives of the program.

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MATERIAL SPECIALIST

- Retrieves and stores the Mission instruction notebook
- Manages Mission material
- Inventories equipment; checks and reports missing or broken items
- Retrieves and stores Crew Mission records folder
- Participates in completing Crew Mission solution.

INFORMATION SPECIALIST

- Reads the Mission information to the Crew
- Leads the Crew in consensus regarding Mission Briefing Summary answers
- Provides specialized information to the Crew
- Participates in completing Crew Mission solution.

Our patented system provides an opportunity to establish a complete Math, Science & Technology lab in your elementary school. Or teachers may have one or more Learningspheres™ in their classroom.

For more information about
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COMMUNICATION SPECIALIST

- Communicates Crew questions to teacher
- Organizes Mission Briefing Summary written responses to teacher
- Operates electronic communication devices
- Maintains written Crew records
- Participates in completing Crew Mission solution.

COMMANDER

- Accepts responsibility for leading the Crew
- Controls communication between the Crew and teacher
- Leads Window activities
- Participates in completing Crew Mission solution.

Spectrum System™

HOW DOES THE SPECTRUM SYSTEM WORK?

A Learningsphere is created when students, teacher, hands-on/minds-on activities, and work space become one. Learning occurs as students immerse themselves in cooperative learning through the System's patented methods.

HERE'S HOW:

- Four students form a crew relationship. Each has a specific role with responsibilities. (Described at left.)
- The Crew completes prescriptive learning and higher level problem-solving experiences at the Crew Center.
- A Crew Mission is an organized set of integrated Math, Science and Technology activities to be completed in three intervals; usually three class periods.
- All student materials, equipment, supplies, classroom resources and management tools are included in a Crew Mission.
- The Crew completes four windows of instruction each interval.
- By assigning the Extensions students may complete a fourth interval (class period) in the Mission.
- Integration with other subject areas and school goals are possible through the various links provided in the Crew Missions.

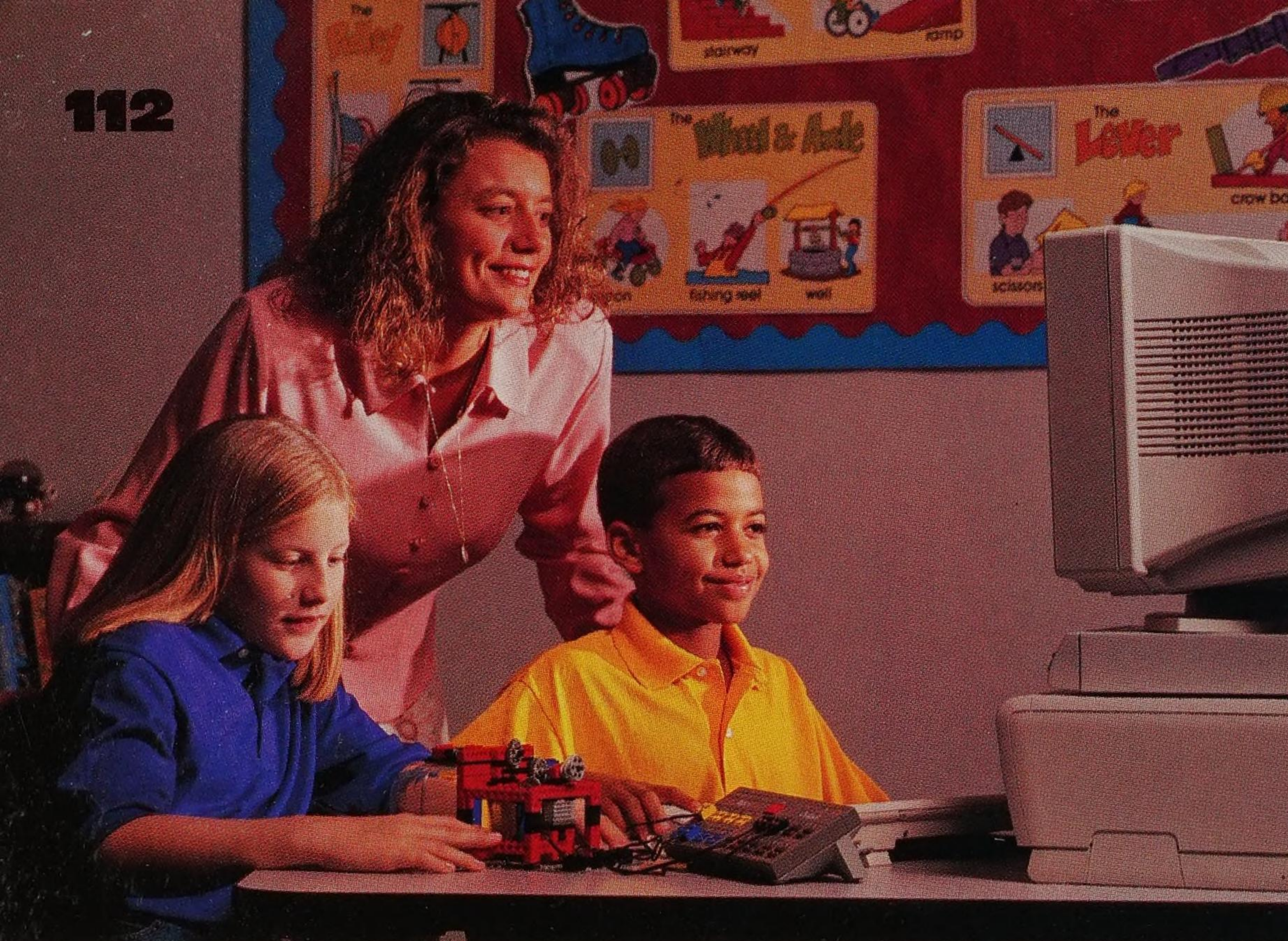
- Crew Missions are available for three grade ranges:

Series III—Grades 5-6

Series II—Grades 3-4

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At Pitsco-LEGO Dacta, we believe in teachers. Our goal is to provide teachers with affordable options for implementing hands-on experiences for their students.

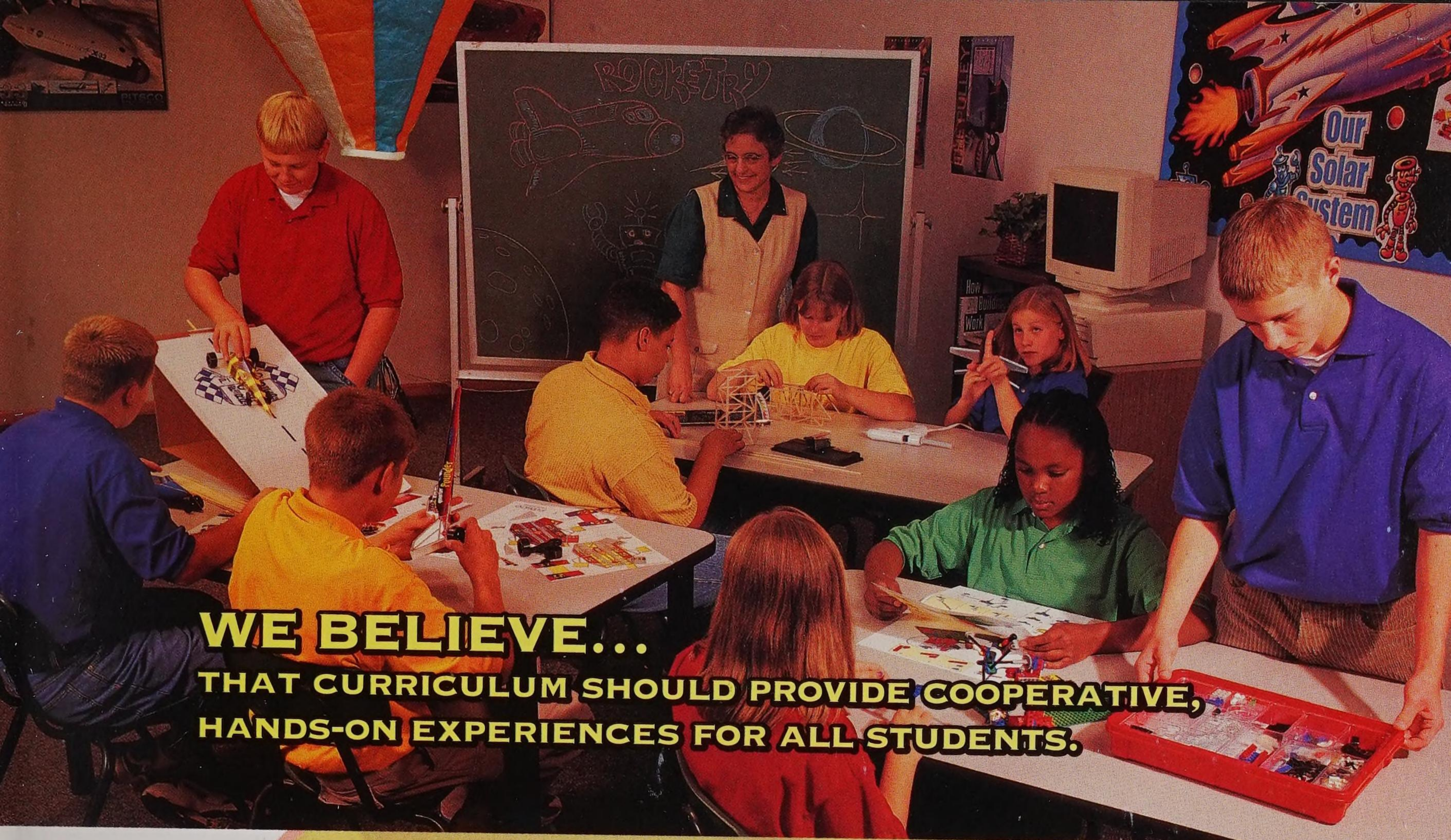
We believe that integration of math, science and technology can best be accomplished when hands-on experiences are provided to students. This catalog contains hundreds of hands-on products as well as Teacher's Guides (Spectrum Links) on pages 2 and 3 and the Spectrum System solution for a complete Math, Science & Technology (MST) Curriculum advertised on pages 110 and 111.

We invite you to become one of the thousands of satisfied users of our products. Our products provide a wide range of solutions to help you teach using hands-on tools!

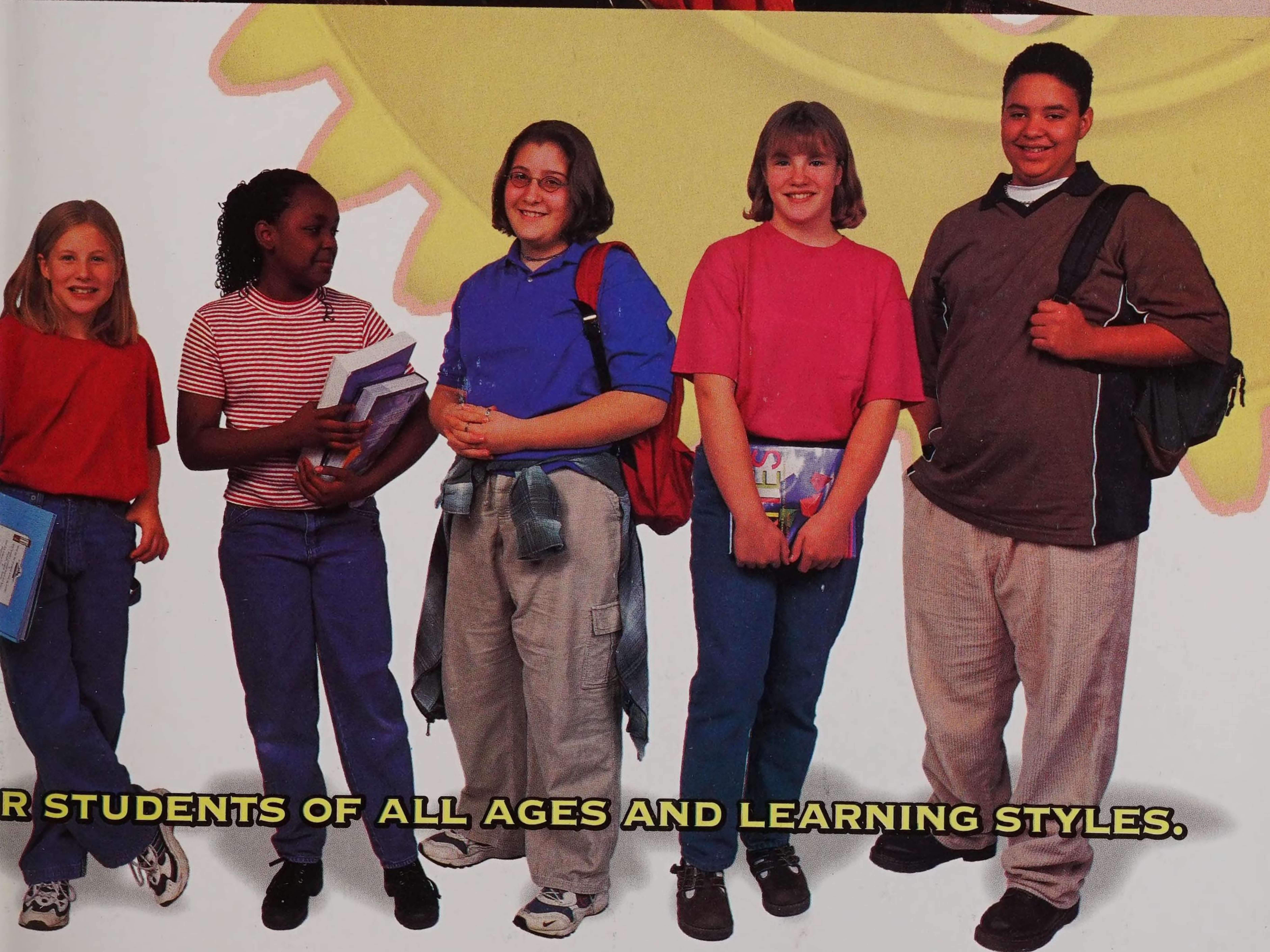
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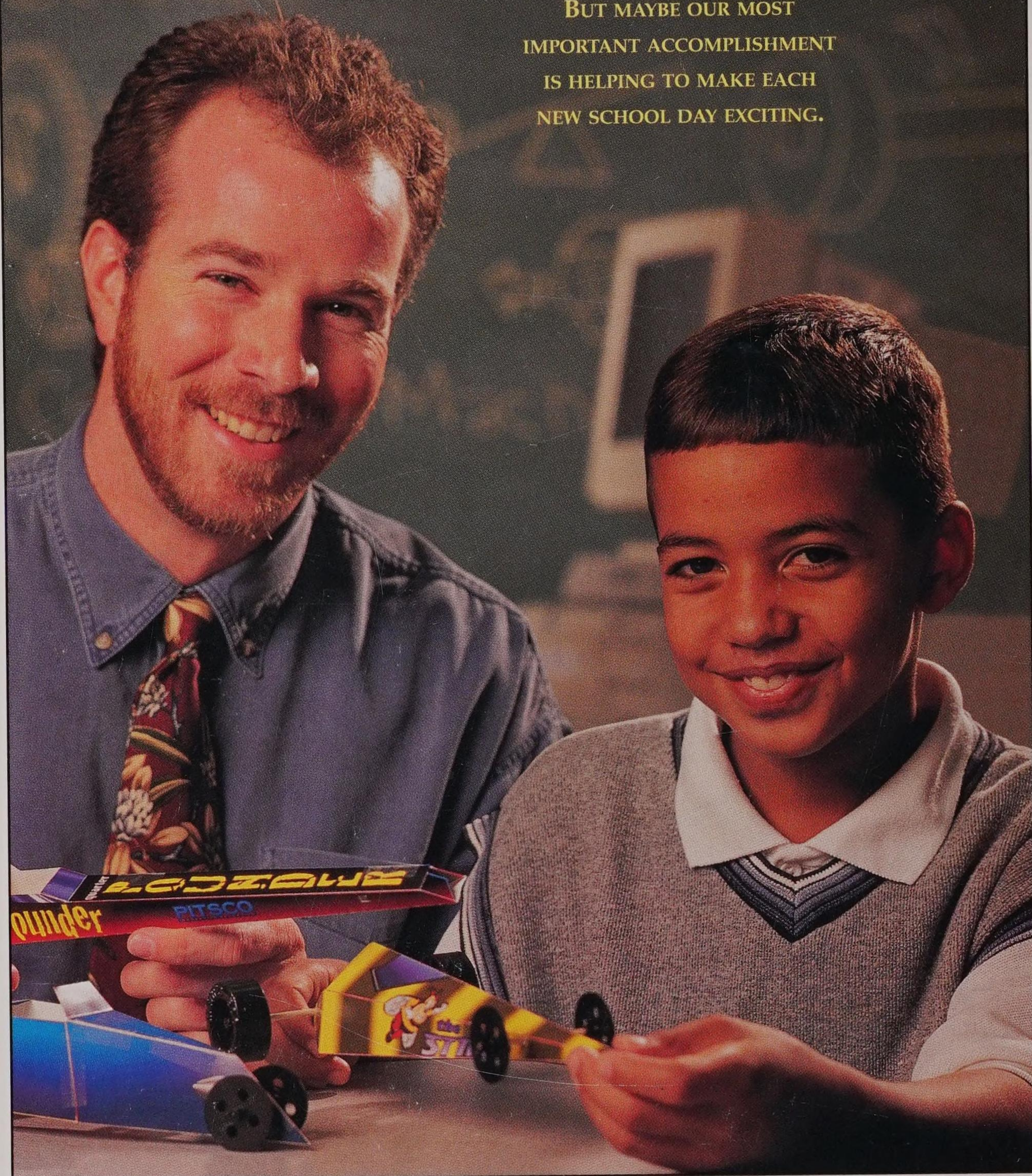
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